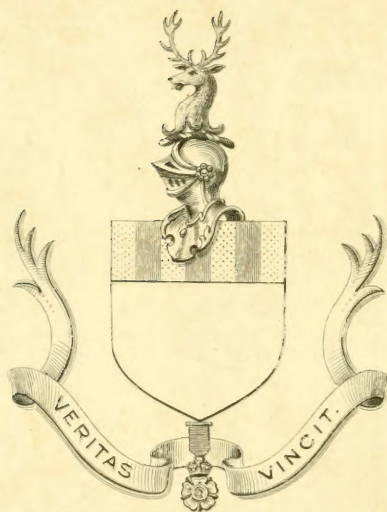




MAJOR GENERAL G.F.L. MARSHALL.

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Birds

For dear Auntie
Agnes
With love from
George &
Bernie

BIRDS' NESTING

IN

INDIA.

24th January 78
Saharnpore
N. W. P.

A CALENDAR OF THE BREEDING SEASONS, AND A POPULAR
GUIDE TO THE HABITS AND HAUNTS OF BIRDS.

ILLUSTRATED.

BY CAPTAIN G. F. L. MARSHALL, R.E., F.Z.S.,

AND MEMBER OF THE BRITISH & INDIAN ORNITHOLOGICAL UNIONS.

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Birds

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PREFACE.

TEN years ago when beginning to make a collection of birds' eggs in this country, I was struck by the diversity in the breeding seasons, and the want of any guide to assist the beginner in his researches. Since then I have kept a continuous record of my observations, and, with the intention of eventually publishing them, I have endeavoured to gather together, as far as possible, the recorded experiences of others; and this little book is the result. Many friends have kindly placed their collections at my disposal, and for a great deal of the information regarding the rarer birds, I am indebted to the courtesy of Mr. A. O. Hume, in permitting the use of extracts from a draft of his book on "Indian Birds' Nests and Eggs," which has as yet only been printed for private circulation: to this source are due the valuable observations from Sikkim by Mr. Gammie; from Hansi (Punjab), the Central Provinces, and Bundelkhund by Mr. Blewitt; from the Nilgiris by Miss Cockburn and Messrs. Davidson and Wait, and by many others from various parts of India, while the information from Bengal is chiefly due to Mr. Parker. Of private collections from which notes have been taken those of Captains Cock and C. H. T. Marshall, and of Mr. W. E. Brooks, were the most important, and to all these gentlemen my thanks are due.

The notes from upper India are comparatively full and complete, but as regards Eastern and Peninsular India they are as yet very meagre, more especially from the latter. A good deal of new information has been collected since the manuscript of this book was put in hand, and more is being accumulated month by month; but the knowledge already gained is valuable as far as it goes, and believing that it is better that what is known should be made at once available to the public, rather than that indefinite delay should be made for fuller detail, I offer no further apology for the incompleteness of the record.

This book will not in any way supplant the carefully detailed work which Mr. Hume is compiling on the nidification of Indian birds, but it will supplement it by abstracting, in a convenient form, certain points

of information, and so facilitate the direction of research into the proper channels. Mr. Hume's work, when published, and, it is to be hoped, it soon will be, should be in the hands of every lover of Natural History in this country.

No details are here given as to the materials and apparatus necessary in forming a collection and in preparing and preserving specimens: those who wish to commence collections of eggs or of skins of birds, will find all information as to details in Mr. Hume's "INDIAN ORNITHOLOGICAL COLLECTOR'S VADE-MECUM," a most useful little book published by the Calcutta Central Press Company (5, Council House Street, Calcutta), and priced one rupee: but with reference to collections of eggs, it is necessary to repeat here that eggs are *scientifically* worthless as specimens, unless the species of bird to which they belong has been *accurately ascertained*; and to do this effectually it is necessary for all except the most practised observers that the skin of the parent bird should be in all cases obtained and preserved.

If egg collectors, into whose hands this book may come, would kindly communicate to me any notes they may make from their own experience in correction or extension of the information now recorded, it would confer a great obligation on me, and enable me, in case a second edition may be required, to render it more complete and satisfactory than I am able to do in the present case.

The list of birds in Part II serves as an index, the order of arrangement followed by Jerdon is adopted, and having ascertained from this list the months in which any particular bird breeds, the further details required will be found on reference to the lists for those months.



MARSHALL DEL.

TAKING OF BROADBILLS NEST,

BIRDS' NESTING IN INDIA.

CHAPTER I.

INTRODUCTORY ; BREEDING SEASONS AND HINTS ON BIRDS' NESTING.

BIRDS' nesting has gained in civilised countries a very evil reputation, in many cases unfortunately only too well deserved, by the wanton cruelty with which it is attended ; and it must be stated clearly to begin with, that the publication of this book is not intended in any way to encourage the idle and foolish destruction of birds, nor to countenance the wholesale robbing of young and eggs from nests, which has brought the very name of birds' nester into discredit, and has changed what should be, and is, if properly carried on, a healthy and instructive pursuit into a deserved reproach.

That the collecting of birds' eggs may be done without cruelty is not to be doubted by any one who has devoted time and thought to the question. Few birds attach any importance to fresh eggs, it is only as the process of incubation progresses, and the maternal instincts are developed, that any grave anxiety is shown by the parent birds when the eggs are approached ; even at this stage many birds will forsake the nest at once if the eggs are touched ; and when the eggs are quite fresh, the simple fact of the nest being touched, or even the detection by the parent bird that the nest has been discovered, is sometimes enough to lead to its desertion : in such cases the taking of the eggs is clearly not followed by any distress to the parent birds. Not many years ago I used to feel very much more strongly on this point than I do now ; the pain at robbing a nest used quite to embitter the joy of discovering a prize ; but it happened on one occasion, during a march through the Bolandshahr district, that

I found a nest of a kind I had long sought in vain, the whistling teal (*Dendrocygna arcuata*). These curious little ducks perch in trees and lay their eggs in nests made of sticks and twigs in trees. The nest was in a babul tree, at the edge of a large swamp, about ten feet from the ground; and standing on a bank close by, I could see both parent birds seated side by side on the nest, with their little heads laid lovingly together, and their soft eyes watching me with no signs of dread. A severe mental struggle followed. My desire to get the eggs turned the scale, and I determined on shooting both the parent birds so as to leave no desolate mourner. I startled them from the nest, and as they flew off, fired right and left, killed the drake, but alas missed the duck. The deed was done, and there was nothing left but to take the egg which I did with a saddened heart and walked on to my camp three miles distant. All that day the memory of the poor little solitary duck haunted me. I could not get it out of my mind, and the next morning I determined to return to the spot, though it took me six miles out of my way, and put an end to the misery of the unhappy survivor by shooting her. On reaching the place, there I found her, seated on her empty nest, the scene of the previous day's calamity, seated indeed, but not alone, she was accompanied, and no doubt successfully cheered by another drake that had already aspired to the place in her affections vacated by her unfortunate partner only the day before. In this case the nest contained only a single egg which was quite fresh, the usual number laid for hatching being from seven to ten.

The behaviour is, however, very different when the little family arrangements are further developed. I once found the nest of a golden-crested wren, with eight eggs in it. The eggs were new to me at the time, and as I was anxious to find out accurately to what bird they belonged, I set a snare by the nest, and in a few minutes caught and killed the hen bird, and then taking the nest I sat down to pack it, and the eggs and the little bird to convey them safely away. While I was engaged on this, the cock bird appeared and soon perceived the disaster that had happened to his home, his plaintive chirping was most piteous to hear, and I hurriedly moved away, but there was no escaping, the poor little thing followed me incessantly, keeping pace with me and flitting from tree to tree, till passing out of the pine wood I got into open treeless ground, and there, unable to trust his frail little wings to the long flight, and fearing to alight on the open common, he fell back, and to my great relief his cries of woe were soon lost to hearing. The eggs were so hard set in this case that I was unable to preserve even one

of them, and that day's work I have ever regretted. It cannot of course be known how long the little bird mourned his loss, or what his end was, but on the other hand no one can doubt that the sorrow for the time was real and deep.

When the eggs are hatched, and the helpless young lie in the nest dependant solely on the parent birds for food and life, the maternal instincts are of course quicker and more deep-seated, and many anecdotes could be told of the devotion of birds to their young, and of their courage and ingenuity in defending them. I will only mention one instance which occurred to a friend of mine. A nest of the golden oriole, often known as the mango bird (*Oriolus kundoo*), had been found in the garden containing young, and was taken and brought into the house with the intention of rearing the young for the cage. The nest was placed by an open window, and there was discovered by the parent birds. They took charge of it as if nothing had happened, coming fearlessly into the verandah and feeding the young all day long. After a few days the nest was removed to another house more than half a mile distant, and still the parent birds followed it, tended it in the new situation, and eventually I believe reared up the young and carried them off as soon as they were able to fly. The golden oriole is a shy retiring bird, and for it to overcome so far its dread of man shows a very high order of parental affection.

One more instance, perhaps the most curious of all, I must give before passing on to resume my subject. The heroine this time being a kite (*Milvus govinda*). Kites are not attractive birds, except for the wonderful grace of their flight, and it is hard to imagine a tender heart beneath their fierce but treacherous and withal cowardly exteriors. In the month of January in lower Bengal when with the kites the breeding season is at its height, a solitary female, over whom the instincts of the season evidently had their sway, but who from some cause or other was unprovided with a nest or eggs, appropriated an empty pill-box that had been thrown on to the roof of a portico, and gathering some sticks and straws round it in the corner of the roof to serve as a nest, she commenced and carried on with admirable perseverance a forlorn attempt to hatch it. When approached and driven from her place she would return to defend the beloved treasure dashing fiercely at the intruder. How long it would have taken before her hopes of welcoming a young kite out of the pill-box would have been finally abandoned was not proved, for a heavy storm of rain reduced it to a pulp, and in its place the egg of a domestic fowl was put down, and on that the kite now joined

by a male kite who keeps careful guard over her, is still sitting. The eggs will be hatched in a few days, and the life of the young chick, which will probably be short and adventurous, will commence.*

It is not *essential* to the pursuit of natural history that collections of eggs or skins should be made ; but the act of collecting is the simplest and readiest if not the only certain way of rendering the eye sufficiently familiar with the appearance of birds to enable any one to recognise and distinguish at a distance the various kinds one from another, and for this reason the making of a collection is very advisable. The interest in the subject so far from ceasing would even increase when the collection was formed and the knowledge gained in the act of collecting remains. Experience proves that, after the acquisition of specimens is no longer desired, there is a pleasure in intelligently watching and noting the habits of birds and animals in life, the intensity of which grows in the minds of all true lovers of nature, just in proportion as its gratification is no longer encumbered with the necessity for taking the lives of harmless and beautiful creatures.

The duties of an Englishman in India frequently entail a great deal of out-of-door life, much of which is in many instances solitary. To such, the need of a pursuit to interest the mind and divert it in leisure hours from the groove of official routine is very great, and to this end the study of natural history is pre-eminently adapted. Few countries offer greater inducements or better opportunities for it than India does, and its pursuit not only affords occupation and interest both in-doors and out-of-doors, but it is also accessible to all and necessitates no more costly apparatus than is within the means of every official Englishman. The habits of close observation which it fosters are especially useful ; and the careful record of personal observations supplies the much-needed data, without which general laws cannot be discussed or deduced. As to the healthy interest it develops in life, those who have experienced it will testify. A country which to others may seem a dreary waste is often to the naturalist a very mine of wealth, a ride across it, or a march through it, becomes replete with interest and enjoyment ; and it is earnestly hoped that, on perusing these pages, some of the many Englishmen scattered over India in solitary places may be induced to take up the study of ornithology, and find in it a new and growing interest which will while away many a pleasant hour.

* This curious instance of aberrant instinct was pointed out to me by Col. Tucker, R.E., on whose house the event occurred and indeed is still occurring.

A knowledge of the habits and seasons of birds is especially useful to sportsmen who seldom have the time for ascertaining the breeding seasons of game birds by personal observation, and in consequence of the want of this information many of our Indian game birds are slaughtered while they have eggs or young chicks, even by men who would be the first to condemn the deed if it were done wittingly. In England long experience has rendered every one familiar with such things, but in this country the seasons are known only to a few. At present no means exist for others of readily ascertaining them, and sportsmen are helpless in the matter. A case in point quite recently came under my observation. A large bag of the likh florikin (*Sypheotides auritus*) had been made in the very height of the breeding season, but no idea that such was the case had ever entered the head of the man (a true sportsman) who had shot them, and he was quite ignorant of the extent of the damage unconsciously inflicted. I feel sure that the publication of any facts that will aid in preventing this misdirection of sport will be welcomed by all, and if each will supplement the existing knowledge of the subject by carefully recording his own personal experiences, we should in a few years have sufficient materials accumulated for a complete record of the breeding seasons, and the way would be paved at all events for an unwritten law, known and honoured by all sportsmen for the observation of close seasons, and then, but not till then, India will become, as it ought to be, equal to the best country in the world for a day's small game shooting. The occasional holiday with a gun, so looked forward to by many, would no longer result in a weary trudge with a nearly empty bag at the end, as is now not unfrequently the case; and partridge-shooting would then afford as good sport as snipe-shooting does at present, but which is in the latter case entirely owing to the fact that the snipe by removing themselves *en masse* to other countries inaccessible to sportsmen, when the breeding season comes round, are able to carry on their domestic arrangements in peace and security.

But to return to the birds' nesting, the real reason why the difficulties arise out here, is the irregularity in season of breeding in tropical climates as compared with temperate climates. In the latter, breeding among birds is almost universally confined to the spring and early summer months. On coming out to India, people naturally assume that the rule holds good out here, which is only very partially the case, and the first difficulty that besets a beginner in collecting birds' eggs in this

country is the absence of any information on this point. At first, search for nests is only made in the spring and summer months, but in the course of time eggs are found incidentally in other months, both earlier and later, and it gradually becomes evident that hours of fruitless search and watching of birds, to trace from their movements where their nests are concealed have been thrown away, which a little experience would have saved by teaching that the breeding season were either already over or had not yet begun, or in some instances even never would begin in that part of the country. It is to answer at all events partially this question, when do the birds breed? that these notes are published. The question is now being answered in full detail for each bird by Mr. Hume's book already referred to in the preface, and this little book will give a review of the year month by month, indicating the direction in which search can at any given time be profitably carried on.

In dealing with a limited area, either tropical or temperate, it would be comparatively easy to furnish a complete guide on this point in a small compass; but with a large country like India, including every variety of climate from the eternal snows of the alpine Himalayas to the unvarying round of heat in the southern peninsular on the one hand, and from the arid deserts of Sind to the humid forests of Assam on the other hand, It is a task of much difficulty to afford full details in a single book. The area dealt with is bounded by the main ridge of the Himalayas on the north; the Suliman range and the Arabian sea on the west; by the Indian ocean on the south; and by the bay of Bengal and Assam on the east. Climate has by far the largest influence in determining the breeding period with birds, and thus over so large an area it is clear that great variations must occur at different points. Speaking generally, it may be assumed that the colder the climate, the more uniformly will the breeding season be confined to the warmer months; and the hotter and less variable the climate, the more irregularly will the breeding season be spread throughout the year. Among hot climates the drier the climate, the more the breeding season inclines to the summer and monsoon months; while in damp tropical climates the winter months are more prolific in proportion; but in India, excluding the Himalayas, there is no place where eggs of some species may not be obtained in every month of the year.

The fewest number of kinds of birds known to breed in this country

in any one month is twenty-eight, and that month is November; and further research will probably show that this number is under the mark. In May four hundred kinds of birds are known to breed, and the number is probably little short of five hundred. Of the twelve hundred or so species found in this country, the breeding of about six hundred has already been ascertained, of the remainder many are migratory and do not breed in this country at all, but there still remains a wide field for discovery, the great bar to further progress being the deadly character of some parts of the country at certain seasons of the year. The great majority of the birds, the breeding of which is yet unknown, frequent swamps or dense forests, and probably breed at seasons of the year when exploration is not only attended with extreme discomfort, but with serious risk of life. Some few kinds, such as hawk owls (*Ninox*) and some of the goat suckers (*Caprimulgidae*) and others, though they breed in accessible and healthy localities, escape observation by their shy and retiring habits.

In every part of India the vultures and many of the large eagles breed during the cold season, the most notable exception is the breeding of the Indian tawny eagle (*A. vindhya*), the spotted eagle (*A. navia*), and the long-legged eagle (*A. hastata*) in the height of the hot weather in moist localities, such as Saharunpoor, the Terai, and Calcutta, but in other parts these species too conform to the general rule. Many of the owls, especially the large ones, breed in the winter, and almost all the others breed in the early spring. The water birds breed during the rainy season. In July and August, in the country affected by the south-west monsoon, and in December in those parts of the south-east coast which are under the influence of the north-east monsoon. In some places the herons are known to breed in the spring, this has been ascertained in Oudh and also at Saugor, but it is unusual. The small warblers also of all kinds breed chiefly, though not without exception, during the rainy season. For the rest the season varies with locality.

In the Himalayas the chief season is April, May, and June, but many eggs may be found in February and March; and also in July. All the fuchs breed late, chiefly in July in the higher ranges. From August to November birds' nesting does not repay the labor and fatigue of walking in the hills, few, if any, eggs are to be found, and only definite search after particular kinds, which there may be good reason to believe are then breeding, should be made. In December and January the big vultures and eagles have eggs, and their eyries should be sought for.

The seasons for any particular kinds that may be spread throughout the whole range of the Himalayas are usually somewhat earlier in the eastern, and later in the western portion.

In the hills of south India the season is much the same as in the Himalayas, but it begins earlier, and ends later. There too a second or autumn brood is frequently hatched, while in the Himalayas, with birds that have two broods, the first is usually in March, and the second in June. In the southern hills, the ranges being less lofty and easily accessible to and from the plains, birds' nesting may be carried on with more or less success over a much longer period by extending the rambles to the forests at the foot of the hills from time to time.

In the plains, where the tropical extremes of temperature occur, the season never ends, every month of the year yields a fair harvest. Some individual species breed all the year round, and where some leave off, others begin, so that the birds' nester may be always fully employed. In the dry parts of the plains, more especially towards the north and west, the autumn months are comparatively barren seasons, the end of the cold weather, and throughout the hot weather and rains being the most prolific periods.

In searching for birds' nests the great secret of success after all is patience and perseverance, and when this is backed by keen eyesight and a knowledge of the habits of birds, success is certain. When the time of breeding is known, the way is cleared to a great extent; but when the time for any particular species is only to be found out by observation, search may be guided by noting the breeding times of closely allied kinds of birds. If the breeding of one species is known, it may generally be inferred, though it is not always the case, that other species of that genus will breed about the same time in that locality. An exception to this is found among the crows, the common crow (*Corvus impudicus*) breeding in the upper provinces in June, while the raven (*C. corax*) and the corby (*C. culmenatus*) both breed in those parts during the winter. Other exceptions will occur to all who have collected eggs in this country, but the rule generally offers a fair guide.

When this method leads to no results, the simplest way with common species is to shoot a specimen from time to time and ascertain by dissection whether breeding is in progress or not. Of course, if the birds are rare, this method cannot be carried out; for it defeats its own object, and watching must be resorted to. With birds in which the sexes differ in plumage, the disappearance of the hen birds, while the

cocks are still to be seen about, leads to the inference that the former are in all probability sitting on eggs somewhere close by, and if watched, the male bird may be seen to carry food to the female, and thus lead to the discovery of the nest. Some birds put on handsome plumes or tufts of feathers as the breeding season approaches, which indicates when search for the eggs should be made. If watched closely, many kinds of birds may be detected pairing; or, in the case of such as build nests, they may be seen carrying bits of stick or straw, or wool or feathers in their bills to the tree or hole where they are preparing their little home. This latter of course leads not only to the knowledge of the breeding season, but also what is more to the point to the discovery of the nest. Some birds that are widely spread over the country breed in one locality or another nearly throughout the year. Some again breed nearly throughout the year in the same locality. Among these latter may be mentioned the striated bush babbler (*Chattarhæa caudata*), the pin-tailed munia (*Munia malabarica*), the black-bellied finch lark (*Pyrrhalauda grisea*), the common sandgrouse (*Pterocles exustus*), and all the commonest doves in the plains.

To ensure success in discovering nests to any extent, it must be repeated that close and persevering search is necessary, many nests and sometimes those of the rarest birds are found accidentally, but even in these cases the finding generally results from a habit of keeping a watch on the movements of birds, and without labor and perseverance no great results can be looked for in this or in any other pursuit. With birds that sit close the nest itself must be searched for; and likely spots must be beaten, or otherwise disturbed, to cause the bird to fly off; but in many cases this is not necessary, as birds often quit their nests on the first signs of the approach of man. In forest country if the trees are too numerous, or the underwood is too thick to allow of complete search, it is best to keep a sharp look-out some thirty yards ahead of where you are walking to catch sight of the birds as they rapidly and often silently flit from the nest and reveal its situation. In this manner I found in one morning nests of the small billed mountain thrush (*Oreocincla dauma*), the dusky bush thrush (*Geocichla unicolor*), the black-throated jay (*Garrulus lanceolatus*), and several others in the course of a quick ride through a secluded forest. It is sometimes advantageous to sit quite still for a time and watch, but as a rule moving about gives the best chance. One morning in the hot weather I had sat down to light my pipe at the foot of a tall clump

of surkerry grass, when a little wren warbler (*Prinia stewarti*) flew up with a straw in its mouth, suddenly caught sight of me and alighting on a twig close by, looked at me in evident astonishment without moving for two or three seconds, then opening its bill and dropping the straw it gave a most melancholy *chee-e-ep*. I looked round, and just at my back, fortunately uninjured, was the nest neatly woven in among the stalks of the grass about a foot above the ground; it was unfinished, and I left it in peace and moved away. Tapping the trunks of trees with a stick in passing is a good plan, as it will generally put a bird up off a nest that would otherwise sit close and escape observation; but even with those species that lay in deep holes in trees, a sound of approaching footsteps is often enough to rouse the bird. I once found the nest of a speckled piculet (*Fivia innominata*), in this way, seating myself on a bank to rest for a few moments under a tree, and looking up among the branches, a head of a little bird protruded from a tiny hole caught my eye. The bird had been roused by the sound of my approaching footsteps, and was looking out to see the cause. The hole which was pierced in the wood of an old trunk at some distance from the ground was so small that I could only put one finger into the entrance, and was almost invisible until the eye was guided to it. To find nests of this description, such as woodpeckers and barbets, the easiest way is by listening carefully in the woods in the early part of the breeding season when the tapping noise made by the birds in digging out the holes with their bills guides the eye to their position.

To find nests in bushes and trees when the birds are close sitters, it is sometimes a good plan to disturb the birds by beating the foliage; but by far the best way is to select the most likely localities where birds are most numerous and carefully search every bush. In open country, with scanty jungle and few trees, every bush and tree should be searched, especially where birds are abundant. Large isolated trees which are so marked a feature in the plains are very favorite resorts, and most of them are more or less tenanted in the season. If the country is quite open, or if the jungle is like the common "beri" thorn jungle, too low and thick to search systematically, better results will be got on horseback than on foot, and in such situations many nests may be found while cantering about on a sure-footed pony. When the country is quite bare of vegetation, as in some plains and fallow lands, or even low stubble, a look-out should be kept well ahead for plovers or sandgrouse and other birds which creep quietly away from their eggs

long before you can get near them. If little bushes or tufts of grass are scattered about here and there, the pony should be guided to pass close by them ; and if a lark or pipit or other bird of similar habits should happen to have a nest under the shelter of one of them, the bird will rise sometimes almost at the horse's feet. For thick low jungle where the riding plan fails, the place should be beaten or dragged with a rope, which latter will make even quail, which are exceedingly close sitters, rise from their eggs. The object of the rapid approach on horseback is to startle the bird and make it rise hurriedly, as otherwise it would creep quietly away unobserved to the other side of the bush.

With gregarious birds the matter is more simple, the breeding haunts may easily be found in most cases, except when the powers of flight are very great as with the spinetails and swiftlets, by noting where they tend to congregate when the proper season arrives. When once the breeding ground is known, it is easy to find the individual nests.

A plan tried by Captain Cock of nailing up a sheepskin to a tree, and watching with binoculars the birds that came to take the wool, was found very successful with tits and some small birds, but experience is the best guide in all cases ; and with these general remarks I must leave the reader to arrange his own course of action in each case.

CHAPTER II.

HABITS AND HAUNTS OF BIRDS, WITH GENERAL DESCRIPTION OF TYPES OF EGGS.

Vultures, (*Otogyps*, *Gyps*, *Pernopteron*, *Gypaetus*).—Build a large conspicuous nest of sticks; sometimes many feet in width and depth; generally a huge solitary tree is chosen for the purpose, and the nest is difficult to reach, indeed often nearly inaccessible. The usual number of eggs laid in each nest is one; two is the greatest number ever laid, and that only by a few species; so that a good collection of the eggs of these birds requires a great deal of difficult climbing and perseverance. Some kinds, the king vulture and the “roc,” lay pure white eggs. Of other kinds the eggs are more or less spotted, those of the “scavenger” and bearded vulture being often very richly coloured. The great brown vulture (*Vultur monachus*) only occurs here in the cold weather, all the other vultures are permanent residents, some breeding wherever they are found, others congregating at particular spots when the time for nest building arrives.

Falcons, (*Falco*).—Of the eight species of true falcons which are found in India, only three are known to breed here; the rest are cold weather visitants migrating to north and west in the summer. Of the three which remain, one, the laggar falcon (*F. jaggur*) is found in dry plains; the two others, the “shahin” (*F. peregrinator*) and the black cap falcon (*F. atriceps*) affect wooded and rugged country. The nest, though large, is generally well concealed. From three to six eggs are laid, which are always well marked, sometimes very richly coloured.

Hobbies, (*Hypotriorchis*).—Nothing is known of their breeding in this country. The European hobby (*H. subbuteo*) is a rather rare winter visitant. The Indian hobby (*H. severus*) is a permanent resident in the eastern Himalayas, where its nest will probably be found in high trees in forest tracts.

Merlins, (*Lithofalco*).—The merlin of Europe (*L. esalon*) is a rare cold weather visitant. The red-headed merlin (*L. chicquera*) is very common, it is a permanent resident, and chiefly found in mango groves. The nests are well concealed in thick foliage, and the eggs are of the same type as those of the true falcons.

Kestrels, (*Tinnunculus*, *Erythropus*).—The common kestrel (*T. alaudarius*) is found all over the country in the cold weather, but retires to the mountain ranges to breed. Of the breeding of the other two kestrels (*E. cenchris* and *E. vespertinus*) very little is known. The former is said to breed in the Nilgiris, and the latter may probably breed in the Himalayas. The eggs are richly coloured.

Pigmy falcons, (*Hierax*).—Of these beautiful little birds very little is known. Only one kind is found in India, in the extreme north-east. They feed on insects and frequent forests. They do not appear to be migratory.

Hawks, (*Astur*, *Lophospiza*, *Micronisus*, *Accipiter*).—The six species known in India are all permanent residents, though in the cold weather some of them wander far from their breeding haunts. Of the besra sparrow hawk (*A. virgatus*), nothing is known as to its breeding. They affect wooded localities and often fly high. The eggs of *Astur* and *Micronisus* are pale blue or grey unspotted. The sparrow hawks lay boldly blotched eggs. One only (*M. badius*) breeds in the plains; the others all breed in mountain ranges and temperate climates.

Eagles, (*Aquila*, *Neopus*).—The golden eagle (*A. chrysaetus*) is said to breed in the alpine Himalayas, making its nest on cliffs; but no eggs have been taken as yet. The black eagle (*N. malaiensis*) also breeds on cliffs, the other resident eagles breed on trees. All the true eagles are more or less migratory. The great tawny eagle (*A. fulvescens* vera or *A. navioides*) and the barred imperial eagle (*A. bifasciata*) leave the country altogether in the breeding season. Eagles frequent open or wooded places, perching on high trees and soaring in search of prey. The nests are conspicuous, and they lay two or sometimes one egg; white with a few spots or blotches.

Hawk eagles, (*Nisaetus*, *Limnaetus*, *Spizactus*).—Bonelli's eagle (*N. bonellii*) frequents open plains as well as wooded hills. The other hawk eagles are confined to forest tracts, and from the unhealthiness of the woods at the breeding time, but few of their nests are taken. They perch in trees with thick foliage and keep a good deal out of sight. They have a loud rather musical call which often leads to their detection. Their eggs generally two in number are sparingly spotted or streaked. They are partially migratory, but probably all breed within Indian limits.

Serpent eagles, (*Circaetus*, *Spilornis*).—The short-toed eagle (*C. gallicus*) is a permanent resident and frequents dry open plains, perch-

ing on isolated trees. It lays a single white egg. The crested serpent eagles (*Spilornis*) are found in forests and well-watered tracts. *S. cheela* breeds in the warm sub-Himalayan valleys. The nest is placed about half way up a tree near water, and the eggs two in number are slightly spotted. They migrate to the well-watered plains in the cold weather. The others are probably permanent residents were found.

Fishing eagles, (*Pandion*, *Polioctus*, *Haliaetus*).—These are always found in the neighbourhood of water. They build enormous nests of sticks on high trees. The osprey (*P. haliaetus*) probably breeds in this country, but the eggs have not as yet been taken. They are very handsomely blotched. The other fishing eagles are permanent residents where they occur, and lay unspotted white eggs.

Buzzards, (*Buteo*, *Archibuteo*, *Poliornis*).—Of the true buzzards (*Buteo*) only one, the long-legged buzzard (*B. canescens*) is known to breed in India. It breeds in the far north-west. The others are confined to the mountains of India and affect well-wooded slopes. Their eggs are boldly blotched. Of the genus *Archibuteo* nothing is known. The two species that occur in India (*A. hemiptolopus* and *A. strophiatius*) are some of the rarest birds in collections. The white-eyed buzzard (*P. teesa*), the only representative of the genus *Poliornis* in India proper, is very common throughout the plains, and a permanent resident everywhere. Its eggs, three in number, are unspotted as a rule.

Harriers, (*Circus*).—Are cold weather visitants to India, retiring north and west to breed. One the marsh harrier (*Cœruginosus*) may possibly breed in a few localities, but the majority of them leave the country. They breed on the ground in marshy tracts and lay bluish unspotted eggs.

Kites, (*Haliastur*, *Milvus*, *Baza*, *Elanus*).—The brahminy kite (*H. indus*) is found in all well-watered districts, and is a permanent resident where found. Of the breeding of the crested kite (*Baza lophotes*) nothing is known. It is wide spread in its distribution, but rare everywhere. The black-winged kite, (*E. melanopterus*) is common in well-wooded districts. All the kites, except the larger Indian kite (*M. major*) which migrates to the plains in the cold weather, appear to be stationary in their habits. They all build on trees and lay handsomely blotched eggs.

Owls, (*Strix*, *Sceloglatrix*, *Phodilus*, *Bulacca*, *Otus*, *Ascalaphia*, *Huhua*, *Bubo*, *Nyctea*, *Ketupa*, *Ephialtes*, *Athene*, *Heteroglaux*,

Glaucidium.)—A great number of owls are found in India, most of them are permanent residents. The short-eared owls (*Otus*) are the only truly migratory ones. They all lay pure white eggs of a rounded shape. The grass owl (*Sceloglischia candida*) lays on the ground in grass. The rock-horned owl (*Ascalaphia bengalensis*) lays on shady ledges of banks. Some of the wood owls (*Bulacca*) lay occasionally on ledges of rocks. The screech owl (*Strix indica*) and the spotted owl (*Athene brama*) lay sometimes in buildings or deserted wells, but the place *par excellence* for finding owls' eggs is in natural hollows in decayed trees. Some of the larger owls which would find holes in any ordinary tree rather tight quarters lay in hollows at the bifurcations of the trunks of large trees. Owls are seldom seen, owing to their nocturnal habits, but some species or other is to be found in every part of India. Some of them live in houses inhabited by man, but the great bulk of them frequent well-wooded districts away from human habitations.

Hawk owls, (*Ninox*).—Nothing is known of the nidification of these curious birds. They affect wooded localities, and are more widely spread than is usually thought. They appear at twilight, perching on conspicuous dead boughs.

Swallows, (*Hirundo*).—Are very widely spread. They are often gregarious and generally found near water over the surface of which they feed. They occur throughout India, and breed much near human habitations. Their nests, of whatever shape, are all made of pellets of clay, fixed against a building or rock generally with a soft lining. The eggs are pure white in some, but spotted in others. The common swallow (*H. rustica*) is migratory. A few pairs only remain to breed in the Himalayas. All the others are permanent residents where found, except perhaps *H. daurica* which breeds in the Himalayas only, but is found in the plains in winter.

Martins, (*Cotyle*, *Chelidon*).—Are very locally spread through India. the sand martins (*Cotyle*) are found near large rivers. The crag martins (*Cotyle*) and the house martins (*Chelidon*) chiefly affect rocky country, and of the breeding of these latter very little is known. They are all more or less gregarious. The crag martins lay spotted eggs. The sand martins lay pure white eggs. They are partially migratory.

Spine tails, (*Acanthylis*).—Of the breeding of the spine tails nothing is known, their amazing powers of flight, and the great distances they traverse in a day, render observation of their habits almost

impossible. They probably breed in company against precipitous rocks.

Swifts, (*Cypselus*).—The breeding of the larger swifts is difficult to ascertain from the same reason as in the case of the spine tails. They fly with great ease and swiftness, and though not, as far as is known, migratory; in the true sense of the word, they wander far and come and go irregularly. The palm swifts are much more local and do not wander far from their breeding haunts. The eggs of all swifts are pure white and very elongated. They are all more or less gregarious breeders.

Swiftlets, (*Collocalia*).—Three kinds of swiftlets breed in India. They are gregarious, with great powers of flight, and wander far. They breed on rocks. Some of the species make the “edible nests” so highly valued by the Chinese. Their eggs like those of the swifts are pure white and very elongated.

Tree swifts, (*Dendrocheledon*).—Only one species is found in India, and that confined to forests and very local. The egg (only one is laid) is pure white and elongated.

Frogmouths, (*Otothrix*, *Batrachostomus*).—Are confined to forests and very local, little is known of them. They probably breed in holes or on stumps and lay white eggs.

Goatsuckers, (*Caprimulgus*).—These birds are widely spread, but each species is comparatively local. They are crepuscular in their habits, and frequent wooded or waste jungly land. They are permanent residents wherever found, and lay two elongated eggs, beautifully marked with pink or brown and salmon colour, on the bare ground or on a few dead leaves. They lie exceedingly close, not rising till they catch your eye. The beds of shady nullahs, ravines, at roots of trees, or in dense underwood, are the spots where they usually deposit their eggs, but they are sometimes laid by a sprig in an open field; and to find them careful and persevering search is necessary. Of *C. macrourus* and *C. mahrattensis*, the eggs have not yet been found. Though not gregarious, one or two nests may sometimes be found very near each other.

Trogons, (*Harporhynchus*).—Are not migratory. They frequent dense forests and lay pure white eggs in holes in decayed trees. Only two kinds are found in India, and they are very local.

Bee-eaters, (*Merops*, *Nyctiornis*).—Are found all over India.

Some frequent forests, and some open plains, but as a rule they are seldom found far from water, except the common bee eater (*M. viridis*), which is found everywhere in the plains. They make no nest, and lay very round pure white eggs in deep holes in banks or in level ground. Sometimes old rat holes are used, but often they excavate for themselves. They are permanent residents, and the breeding of all, except the blue-ruffed bee eater (*N. athertoni*), is well known. They are generally, though not always, gregarious and breed in colonies.

Rollers, (*Coracias, Eurystomus*).—Lay round white eggs in holes in decayed trees. They are not migratory as a rule, though they sometimes wander in the cold season far from their breeding haunts. The common roller (*C. indica*), the “jay” of Englishmen in India, often breeds about houses. It is a well-known and conspicuous bird.

Kingfishers, (*Pelargopsis, Halcyon, Ceyx, Todiramphus, Alcedo, Ceryle*).—Are essentially non-migratory. Wherever they are found they breed. They lay round white eggs in deep holes in banks, making no nest. Many species are found in India, but most of them are very local; and partly owing to their rarity, partly owing to the unhealthiness of the localities, they affect during the breeding season. The nests of only a few species have as yet been discovered in this country. The kingfishers in India all belong to genera, which keep near water and breed in holes in banks. Some genera belonging to other countries inhabit forests, and lay their eggs in holes in decayed trees. Here, though banks of rivers or canals are by far the most approved localities, instances have occurred of eggs being found in holes in the sides of wells, in banks of ponds, and even in mud walls in a village.

Broadbills, (*Psarisomus, Serilophus*).—The nidification of these birds is little known. They appear generally to build a globular or pear-shaped nest,* hanging from the tips of boughs, and lay white eggs. Only two species occur (*P. dalhousie* and *C. rubropygia*), both confined to the Eastern Himalayas, and both rather rare, though permanent residents. They affect oak forests and keep to the tops of trees.

Hornbills, (*Homraius, Rhyticeros, Hydrocissa, Meniceros, Tockus, Aceros*).—These are the “toucans” of Englishmen in India. They inhabit forests or wooded country; and where they occur are permanent residents. They all nestle in holes in decayed trees generally at a considerable height from the ground. The entrance to the hole is

* See frontispiece.

more or less plastered up after the female has entered, and the eggs are white.

Parrots, (*Palæornis, Loriculus*).—These occur throughout India some local, some widely spread, but all where they occur are permanent residents. They lay pure white eggs in holes in trees, generally they use a natural hollow, but sometimes they cut the entrance hole themselves, always choosing a tree decayed internally. The nest holes are often at a considerable height from the ground. They are gregarious when not breeding, and often a number of nests may be found in the same tree. They affect cultivation and open wooded country.

Woodpeckers, (*Picus, Hypopicus, Yungipicus, Hemicircus, Chrysocolaptes, Muelleripicus, Gecinus, Chrysophlegma, Venilia, Gecinulus, Micropternus, Brachypternus, Chrysonotus*).—There are a great number of species in India. Only two species are widely spread, the yellow-fronted woodpecker (*Picus mahrattensis*) and the common gold-back woodpecker (*Brachypternus aurantius*). The rest are local and confined to particular parts of India. They are as a rule only found in well-wooded districts. They all lay pure white eggs, and deposit them in holes in trees which they cut for themselves with a neat circular orifice.* The nest holes are always on the under-sides of boughs, or in perpendicular trunks to keep out rainwater. Woodpeckers are not migratory. They breed wherever they are found.

Piculets, (*Vivia, Sacia*).—Only two species occur in India, and these are confined to the Himalayas. In habits they exactly resemble woodpeckers, and lay white eggs in artificial holes in trees. They are not migratory.

Wrynecks, (*Yunx*).—One species, the common wryneck (*Y. torquila*) is common in the plains in the cold weather, but it migrates in the spring. It is said to breed in Kashmir, but no details are recorded. They nestle in holes in decayed trees and lay pure white eggs.

Honey guides, (*Indicator*).—One species is found though extremely rarely, and nothing is known of its habits.

Barbets, (*Megalama, Xantholama*).—Many species occur in India. They closely resemble woodpeckers in their habits, but they feed on fruit. They are non-migratory, breeding wherever they are found. They usually inhabit forests or well-wooded country, lay pure white eggs, and de-

* Mr. Gammie has recently discovered that in Sikkim the bay woodpeckers (*Micropternus*) make their nest holes in black ants' nests attached to trees, a most remarkable fact.

posit them in holes which they cut for themselves in trees. They usually select a decayed tree, and the circular orifice pierced, they occupy the natural cavity in the centre of the trunk or bough.

Cuckoos, (*Cuculus*, *Hierococcyx*, *Polyphasia*, *Surniculus*, *Chrysococcyx*, *Coccyzus*, *Eudynamis*).—All these birds are migratory more or less, and parasitic in their habits. They appear for breeding purposes in the spring in the hills, and in the rains in the plains, and lay their eggs in other birds' nests, selecting, according to circumstances, the bird most likely to prove useful in rearing their young for them. One of the hawk cuckoos (*H. sparveroides*) is said to build its own nest in the Nil-giris, but this requires confirmation.

Ground cuckoos, (*Zanclostomus*, *Centropus*, *Taccocua*).—These birds are somewhat locally distributed; they chiefly inhabit dense jungle and thickets, and where they occur are permanent residents. They build massive stick nests often domed over, in thick cover, and lay white eggs, rather chalky in texture.

Spider-hunters, (*Arachnothera*).—These are a Malayan form, only two species extending to India. The nest of the big spider-hunter (*A. magna*) is a very neat massive deep cup, sewn to a leaf of the plantain tree, and the eggs are deep greyish brown.

Honeysuckers, (*Æthopyga*, *Leptocoma*, *Arachnechthra*).—One species, the purple honey sucker (*A. asiatica*), is spread throughout India. The other species, and there are many, are very local. The greater number confined to the Himalayas. They build a beautiful little pear-shaped hanging nest, with a side entrance, overhung by a fringe, and lay two much speckled eggs. They are partially migratory and frequent warm valleys and jungles.

Flower-peckers, (*Dicaeum*, *Piprisoma*, *Myzanthus*, *Pachyglossa*).—These birds are generally local and are not migratory. The nest is a beautiful little purse-shaped structure of a delicate felt-like substance hung not by a point but by an edge from a bough. The eggs are white in some species and spotted in others. They affect well-wooded localities, and often keep to the tops of high trees for feeding; though the nests are as often as not quite low down. The last two genera are only found in the eastern Himalayas.

Tree-creepers, (*Certhia*, *Salpornis*).—The true tree-creepers (*Certhia*) are confined to the Himalayas where they are permanent residents. The nests are high up in trees behind crevices in bark and

exceedingly difficult to find. The eggs are spotted. Of the spotted grey creeper (*Salpornis spilonota*) nothing is known. It is found in many localities, but nowhere common.

Wall-creepers, (*Tichodroma*).—Only one species occurs in India. It breeds in the Himalayas at 3,000 to 5,000 feet altitude, descending to the foot of the hills in the cold weather. The nest is slight, placed in a crevice in a rock.

Nuthatches, (*Sitta*, *Dendrophila*).—These are all permanent residents where they occur. They are found in forests or well-wooded tracts. They make their nests in hollows in decayed trees, lining the hole with feathers, wool, or moss, and closing up the entrance with a stiff gummy substance, till only a tiny circular orifice is left. The holes are often near the ground, but sometimes very high up in large trees. The eggs are spotted rather boldly.

Hoopoes, (*Upupa*).—The common hoopoe (*U. epops*) migrates to the plains in the cold weather, but breeds only in the north-west Himalayas. The Indian hoopoe (*U. nigripennis*) is a permanent resident throughout the country. They nestle in holes in trees or buildings, lining the hole with a few feathers and leaves. They are domestic in their habits, often breeding about human dwellings. The eggs are greenish or brownish grey.

Shrikes, (*Lanius*).—Butcher birds or shrikes are permanent residents where they occur. They usually place their nest in the fork of a thick bush, but sometimes they wedge it up against the trunk of a tree, or even place it on a dead stump. The eggs are typically whitish, with a thick ring of spots near the larger end; but sometimes the whole egg is more or less spotted. Shrikes generally frequent open country and avoid forests. The brown shrikes are migratory and leave upper India in the spring.

Wood shrikes, (*Tephrodornis*).—The nests of the woodshrikes are small and very neatly made, usually placed in forks high up in trees and difficult to detect. The birds are not migratory, but the breeding of only one species, the common woodshrike (*T. ponticeriana*), is known. Its eggs are very much like miniatures of the true shrikes.

Pied shrikes, (*Emipus*).—These birds are local and frequent hilly country. Very little is known as to their habits.

Cuckoo shrikes, (*Velvocivora*, *Graucalus*).—These, like the woodshrikes, are permanent residents where they occur; but the nests

are very difficult to find. They are small, neatly made, placed high up, and the outside is assimilated in appearance to the bark of the tree they are on. The eggs are boldly streaked and very handsome.

Minivets, (*Pericrocotus*).—Are almost always found in forests or well-wooded districts. They are gregarious during the cold weather, and some of them are migratory, but all the kinds that occur in India breed in this country. The nest is beautifully built, almost like a tumbler, with perpendicular sides, and placed on a horizontal branch high up. They are very difficult to find. The eggs are well spotted.

Drongo shrikes, (*Dicrurus*, *Buchanga*, *Chaptia*, *Bhringa*, *Edolius*, *Dissemurus*, *Chibia*).—Are almost entirely confined to forest tracts, with the exception of the common drongo shrike or “king crow” (*D. albirictus*), which is found every where. They are not migratory, though some of the hills species ascend to higher elevations as the weather gets warmer; and the white-bellied king crow (*D. carulescens*) seem to disappear from the plains in the breeding season, but of its habits very little is known. They all make a loose basket work saucer-shaped nest of roots wedged into a horizontal fork at the end of a bough often at a considerable height from the ground. The common king crow (*D. albirictus*) sometimes lays pure white eggs, but the typical colour in this family is white, with a few claret or brown spots.

Swallow shrikes, (*Artamus*).—Are very local and little is known of their habits. They are generally found in clearings in forests, and are probably permanent residents.

Flycatchers, (*Tchitria*, *Myiagra*, *Leucocerca*, *Chelidorhynx*, *Cryptolopha*, *Hemichelidon*, *Alseonax*, *Ochromela*, *Eumyias*, *Cyornis*, *Muscicapula*, *Nitidula*, *Niltava*, *Anthipes*, *Siphia*, *Erythrosterina*).—The habits of this group show many variations. As a rule, flycatchers are to be found in forests and retired glens; but they also sometimes frequent gardens and orchards. Probably, all the Indian species breed within the limits of this country. The only doubtful ones being the robin flycatchers (*Erythrosterina*). Most of the flycatchers migrate to the plains in greater or less numbers during the cold weather. Out in the open plains the white-browed fan-tail (*L. aureola*) is the only widely distributed permanent resident. The paradise flycatcher (*T. paradisii*), the black-naped azure flycatcher (*M. azurea*), and the white-throated fan-tail (*L. fuscoventris*) breed in some of the moister

and better wooded districts. Some of the blue red-breasts (*Cyornis*) breed in the plains of south India. All the others breed in the hills, and the greatest number breed in the Himalayas. Their nests are all ingenious. Some of them most beautiful little structures, seldom at any great height from the ground, and often resting on it. The eggs are in all cases prettily marked and spotted.

Wrens, (*Tesia*, *Pncopyga*, *Troglodytes*, *Rimator*).—Are only found in the Himalayas within the Indian limits. They frequent moist forests and live in thick undergrowth. They are not migratory. Very little is known of their breeding, but they probably all make domed nests in thick creepers against trunks of trees.

Shortwings, (*Brachypteryx*, *Callene*, *Hodgsonius*).—Are found only in mountainous countries and like the wrens frequent dense underwood in forests. Very little is known of them, but they do not appear to be migratory.

Whistling thrushes, (*Myiophonus*).—Are hill birds, though they extend especially in the cold weather into the forests below. They are seldom found far from water or in open country, and they breed in retired places exclusively in the hills. The eggs are long, pointed, and freckled all over with minute spots.

Ground thrushes, (*Hydromis*, *Pitta*).—Are birds of very retiring habits, keeping on or near the ground in tangled brushwood or dense cover. They appear to be very local in their distribution, and some of them migrate, but their shyness prevents much observation of their habits. The eggs are white, more or less spotted and streaked.

Water ouzels, (*Hydrobata*).—Are only found in the Himalayas frequenting streams of running water. The eggs are pure white.

Long-billed thrushes, (*Zoothera*).—Only one species is found in India. It is confined to the Himalayas, and frequents tangled brushwood by streams in dense forest. Nothing is known of its nidification or migrations. The eggs of *Zoothera*, as far as they are known, resemble those of *Pitta*.

Rock thrushes, (*Petrocosyphus*).—Are migratory birds frequenting rocky plains. They are only known to breed in India in the far north-west. The eggs are blue, slightly speckled.

Chat thrushes, (*Orocætes*).—Are found commonly on wooded hills. They breed only in the Himalayas, but in the winter descend to the warm valleys and even to the plains. They all build their nests on the

ground; and their eggs are clouded somewhat similarly to the eggs of the English robin.

Bush thrushes, (*Geocichla*).—Are migratory, breeding only in the hills, but extending far into the plains in the cold weather. They frequent open forests and glades. The position and shape of nest and the colour of the eggs are exact miniatures of those of the blackbirds to which these birds are very closely allied.

Blackbirds, (*Turdulus*, *Merula*).—Breed only in the hills and wander less in the cold weather than the bush thrushes or true thrushes. In habits and nidification, and also in the colour of their eggs, they closely resemble the English blackbird.

Thrushes, (*Turdus*, *Planesticus*, *Oreocincla*).—The true thrushes are rare in India. The Nilgiri thrush (*O. nilgiriensis*) is found in the hills of south India as a permanent resident. The black-throated thrush (*P. atrogularis*) is a cold weather visitant to the plains of upper India. The small-billed mountain thrush (*O. dauma*), which breeds in the Himalayas, also visits the plains in the winter, but the remainder of the thrushes are only found in the Himalayas. Many of them being extremely rare. Of the breeding of the genus *Planesticus*, nothing is known in this country. The eggs of *Oreocincla* are like miniatures of the whistling thrushes; being long, pointed, and freckled all over with minute pale spots. The breeding of the genus *Turdus* out here is similar to that of the missel thrush at home.

Finch thrushes, (*Paradoxornis*, *Heteromorpha*).—Nothing is known of their nidification. They are shy birds and rare, frequenting thick cover. They are only found in the eastern Himalayas and Khasia hills, where they are probably permanent residents, at 3,000 to 10,000 feet above the sea.

Tit thrushes, (*Chleuasicus*, *Suthora*).—Are also rare and confined to the eastern Himalayas and Khasia hills. Of their nidification nothing is known. They frequent brushwood and grass jungle.

Jay thrushes, (*Conostoma*, *Grammatoptila*).—Are shy, forest-loving birds, only found in the higher ranges of the eastern Himalayas. The red-billed jay thrush (*C. æmodium*) is only found near the snows. They do not appear to migrate. They build in thick brushwood or forest. The egg of *Conostoma* is white, with blotches and streaks. That of *Grammatoptila* is pale blue unspotted.

Shrike thrushes, (*Thamnocataphus*, *Gampsorhynchus*).—Are also

confined to the eastern Himalayas, and their nidification is unknown. They occur at low elevations and frequent brushwood. Of one kind, the white-winged shrike thrush (*T. picatus*), only one specimen has ever been procured.

Tit babblers, (*Pyctorhis*, *Trichastoma*).—Only one of these, the yellow-eyed babbler (*P. sinensis*) is common. The other species are only found in north-east India. They frequent low jungle and brushwood, and are not migratory, breeding wherever they are found. The egg of the only species of which the breeding is known is beautifully marked with spots, clouds, and streaks.

Quaker thrushes, (*Alcippe*).—Are small birds frequenting dense forests and chiefly hilly countries. They are not migratory nor gregarious to any extent. The eggs are profusely spotted, and sometimes lined or blotched.

Wren babblers, (*Stachyris*, *Mixornis*, *Timalia*, *Dumetia*, *Pellorneum*).—Are a Malayan family, and the greater number of the species are confined to the north-east corner of India. The genus *Stachyris* is confined to the Himalayas, and is a strictly arboreal genus. All the others frequent brushwood and low thick jungle, and are generally gregarious. *Mixornis* and *Timalia* are eastern Himalayan forms. *Dumetia* is found in all India, but not very common anywhere. *Pellorneum* has an equally wide distribution, but is more common in hilly than level countries. They do not migrate. They build on or near the ground in brushwood. The eggs of some are pure white, of others more or less thickly speckled, and in one case, that of the rufous-bellied wren babbler (*D. hyperythra*), the eggs are streaked as well as spotted.

Scimitar babblers, (*Pomatorhinus*, *Xiphoramphus*).—This is purely a hill genus. They are found at low elevations haunting under wood in open forest country. They do not migrate. One species is found in the Nilgiris. All the others are confined to the Himalayas and hill ranges of north-east India. They build on or very near the ground making a domed nest and laying very fragile elongated eggs. These are always, as far as is known, pure white, unspotted.

Laughing thrushes, (*Garrular*, *Trochalopteron*).—A group of richly-coloured, noisy, and generally gregarious birds which do not migrate and are confined to hilly countries. The nests are solitary, but the birds even in the breeding season keep usually in small parties. They are never found far from forests and love densely wooded tracts.

One species of *Garrulax* and three species of *Trochalopteron* are found in the hills of south India. The rest are all from the northern mountains. The nests are always in small trees or bushes in thick woods, never in open country. The eggs of one or two species are pure white; but the general colour of eggs of the various kinds of *Garrulax* is unspotted blue, sometimes pale, sometimes a very deep rich shade. In *Trochalopteron* the eggs are blue, sometimes unspotted. In one case (*T. phæniceum*) they are scrawled and streaked; but the usual type is that of the English song thrush (*T. musicus*) blue, with a few conspicuous dark spots.

Bar wings, (*Actinodura*).—Are confined to the eastern Himalayas and Khasia hills. They frequent forests, and though they breed on the ground, they are very arboreal in their habits. They occur usually from 3,000 to 10,000 feet elevations, and do not migrate. Their eggs are very little known.

Sibias, (*Sibia*).—Are only found in the Himalayas and Khasia hills. They are noisy, do not migrate, and are strictly arboreal in their habits. The eggs are clouded and somewhat streaked on an ashy ground.

Babblers, (*Acanthoptila*, *Malacocercus*, *Layardia*, *Chattarhæa*).—Are some of the commonest and most widely spread birds in India. The genus *Acanthoptila* is confined to the Himalayas and is very little known. The others are plains birds, only one (*M. malabaricus*) being confined to the hilly portions of south India. They are to be found everywhere feeding chiefly on the ground and flitting about in brushwood in small parties, being of gregarious habits; though the nests are always solitary. They lay unspotted blue eggs. One species (*C. earlii*) is almost a reed-babbler, and is seldom found far from water. It frequents reeds and long grass among which its nest is placed.

Reed babblers, (*Megalurus*, *Chætornis*, *Schænicola*, *Eurycercus*).—Are very local; partly gregarious and only found in marshy tracts. Some of them appear to migrate, but their habits are not well known. The eggs are usually spotted on a white ground, but more information is required.

Bulbuls, (*Hypsepetes*, *Hemixos*, *Alcurus*, *Criniger*, *Ixos*, *Kelaartia*, *Rubigula*, *Brachypodius*, *Otocompsa*, *Pycnonotus*, *Phyllornis*, *Iora*).—The Malayan region is the head-quarters of the bulbul family, but no less than twenty-seven different kinds are found in India. They are found everywhere, and where found are permanent residents. Some

kinds occur in the plains only and some in the hills. They are arboreal in their habits. Most of them prefer forest country, more or less dense, but some are found in open slightly wooded country. They build small neat cup-shaped nests, often very slight in structure; generally fixed in forks where two or three shoots divide near the ends of boughs; but sometimes hung from a horizontal fork like a tiny basket. The eggs are typically pinkish white, thickly spotted, and blotched with claret or purple. Of the green bulbuls (*Phyllornis*), the eggs are white, with a few brownish marks, and in the genus *Iora* the ground colour is greyish white, and the markings are very curious, jagged irregular streaks of greyish, reddish, or purplish brown.

Blue birds, (*Irena*).—Only one species is found in India, and that only in the Malabar forests. They are strictly arboreal in their habits and do not migrate. They keep in small parties near the tops of high trees. The nest is rough and untidy, not the least like an oriole. The eggs are pale greenish, streaked and spotted with dusky.

Orioles, (*Oriolus*).—Are permanent residents in India, but they wander much in the cold weather. They are quite arboreal in their habits, and build in trees a beautiful neat basket-shaped nest. They are not gregarious. The eggs are glossy white, with a few dark spots. They are found all over India, both in hills and plains.

Robins, (*Copsychus*, *Kittacincla*, *Myiomela*, *Grandala*, *Thamnobia*).—This group comprises many widely differing forms. The magpie robin (*Copsychus saularis*) is found throughout India in wooded tracts and gardens. The shama (*Kittacincla macroura*) is very local, and inhabits only dense thickets in forests. The long-winged blue chat (*Grandala calicolor*) is a most anomalous form, approaching in some points very near the starlings. It is only found near the snow in the alpine Himalayas. The white-tailed blue chat (*Myiomela leucura*) is also confined to the Himalayas, and is found at rather high altitudes. The true robins of India (*Thamnobia*) are found in the open plains throughout the country. All the robins build on or very near the ground often in banks or clefts of rocks. They do not migrate; are solitary, and lay spotted or more often clouded eggs.

Bush chats, (*Pratincola*, *Oreicola*).—A group of small birds found throughout the plains, especially in dry open country in the cold weather, but retiring, as a rule, to the hills to breed. Only a very few nestle in the plains. Their habits are very much those of the robins,

and their nests and eggs are also very similar. The genus *Oreicola* differs from *Pratincola*, in that the only species which occurs here (*O. Jerdoni*) is a shy, retiring bird, frequenting dense thickets and long grass jungle. Its breeding habits are unknown.

Stone chats, (*Saxicola*).—Are only cold weather visitants to this country, and are found in dry open plains; feeding on the ground and perching on stones, rocks, and occasionally on bushes. None of them are known to breed in India; but where they do breed, their nests are on the ground near shelter, and the eggs are blue, with a few faint spots.

Rock chats, (*Cercomela*).—Are very similar in their habits to stone chats, and are found in similar localities. One (*C. fusca*) is a permanent resident in India, and breeds where it is found. Of the other very little is known. It is extremely rare. Their eggs are like those of stone chats.

Redstarts, (*Rutacilla, Chæmorornis*).—The redstarts are all migratory, only one (*R. rufiventris*) wanders throughout India in the cold weather, but many species are found in the Himalayas. They are generally to be met with by water in open country. One species (*C. leucocephala*) breeds in the alpine Himalayas, and the plumbous water robin (*R. fuliginosa*) breeds throughout the Himalayas. These two latter lay spotted eggs. The others, as far as has been ascertained, lay unspotted blue eggs, rather elongated in shape; but they are not known to breed in this country.

Wood chats, (*Larvivora, Ianthia, Tarsiger, Calliope, Cyanecula*).—The wood chats are migratory birds. A few are found in the plains in the cold weather. A few breed in the hills, and others leave the country altogether for breeding purposes. They frequent open forests, perching low and feeding near the ground. The blue throat wood chat (*Cyanecula suecica*) is generally found near water, often in the weeds at margins of tanks. Their nests are very little known, but the eggs appear to vary much in character. Of *Larvivora* the eggs are mottled and streaked. Of *Ianthia* they are faintly zoned. Of *Tarsiger* they are unspotted blue. Of *Calliope* unspotted pale buff.

Reed warblers, (*Acrocephalus, Arundinax, Dumeticola, Locustella, Tribura*).—The reed warblers are generally migratory. The three species of *Acrocephalus* are found throughout India in the cold weather and retire to the Himalayas to breed. They lay white eggs thickly spotted. The other genera are very little known. They inhabit

dense swamps and marshy tracts, and are very difficult to flush, and consequently rare in collections. None of them are known to breed in the plains.

Hill warblers, (*Horornis*, *Horeites*).—A group of small plain coloured birds found at high elevations in the eastern Himalayas, and some on the Khasia hills. They frequent brush-wood and thick grass and shun observation. The eggs vary a good deal, but typically appear to be richly coloured, chocolate brown, or dull purple. The nests are near the ground in thick brush-wood.

Tailor birds, (*Orthotomus*).—Are found throughout India, shunning the dry open plains, and creeping about in trees or brush-wood. They are non-migratory, and the eggs are spotted.

Wren warblers, (*Prinia*, *Drymoipus*, *Burnesia*, *Franklinia*).—A large group of tiny birds which are spread throughout India, not however ascending the Himalayas to any height. They affect open plains or gardens creeping about in grass or bushes. They make purse-like nests, deep with an opening near the top, or a little cup sewn in leaves like a tailor bird's nest. They do not migrate, but breed wherever they are found. The eggs of the *Prinias*, with ten tail feathers, are brick red. Those of the *Prinias*, with twelve tail feathers, are blue, with small spots. The smaller species of *Drymoipus* lay blue eggs, richly streaked and blotched, while the larger species lay dull-coloured clouded eggs. Of *Burnesia* and *Franklinia* the eggs are profusely speckled.

Grass warblers, (*Cisticola*, *Gramminicola*).—Are spread locally throughout the plains in marshy spots, frequenting thick grass and shunning observation. The eggs are spotted.

Scrub warblers, (*Drymæca*).—One species only is found, and that in the trans-Indus hills in low scrub jungle, where it is a permanent resident. The eggs are profusely spotted.

Tailed hill warblers, (*Suya*).—These birds are found only in the Himalayas where they take the place of the *Drymoipi*, which they much resemble in appearance and habits. They are not migratory in the true sense of the word, but descend to the warm valleys in the winter. The eggs are zoned.

Tree warblers, (*Neornis*, *Hyppolais*, *Phylloscopus*, *Reguloides*, *Culicepeta*, *Abornis*, *Tickellia*).—A large group of very small birds, many of which are brightly coloured. They are migratory as a rule. Only one (*Hyppolais rama*) is known to breed in the plains, and that very

rarely, the majority migrating north and west. The genus *Neornis* build cup-shaped nests, and lay deep dull purple red eggs, with a tendency to a zone at the large end. They are permanent residents in the eastern Himalayas. Of the breeding of the *Phylloscopi* very little is known, but some of them certainly breed in the Himalayas. The *Reguloides*, *Culicepeta*, and *Abrornis* also breed in the Himalayas to a great extent; typically they make domed nests on the ground in mossy or grassy banks; but some build high up in trees (as *R. proregulus*), and others (as *R. occipitalis*) breed often in holes in decayed trees. The eggs of *Culicepeta*, *Abrornis*, and at least one of the *Reguloides* (*R. occipitalis*) are pure white, with some of the *Reguloides*, they are spotted, but the breeding of these birds is comparatively little known. Of *Tickellia* the breeding is unknown, but it appears to be a permanent resident in the Himalayas.

Golden-crested wrens, (*Regulus*).—Only one species is known, and that is a permanent resident in the Himalayas at high elevations. In habits it closely resembles the English golden-crested wren, and its nest is similar, but the eggs have not as yet been taken.

Whitethroats, (*Sylvia*).—Are migratory birds, appearing in the plains of India in the cold weather. One species only (*S. affinis*) is known to breed in the north-west Himalayas, and this in its habits is identical with the English whitethroat.

Fork tails, (*Henicurus*).—Are an Indo-Malayan family of birds. They occur in India only in the Himalayas, and are not migratory. They are always found near water, generally running water. The nest is a shallow compact structure of mosses and roots and fibres placed on banks or rocks, and the eggs are speckled in all the species of which the breeding is known.

Wagtails, (*Budytes*, *Motacilla*, *Nemoricola*).—Are very migratory birds. Only two appear to be permanent residents in the plains of India: one the Indian pied wagtail (*M. maderaspatana*), the other a very anomalous form, the black-breasted wagtail (*Nemoricola indica*), which is rare every where, and of which the nest has never been taken. Of the remainder, three species (*M. luzionensis*, *M. melanope*, and *B. calcaratus*) are known to breed in the Himalayas. The rest probably migrate still further north; breeding in Turkistan. In habits they are all alike keeping to plains near water or moist fields, building a shallow nest of roots and hair on the ground and laying speckled eggs.

Pipits, (*Pipastes*, *Anthus*, *Corydalla*, *Agrodroma*, *Heterura*).—Are as a rule migratory, though many of them are permanent residents in some parts of India. One of the tree pipits (*P. montanus*) appears to be confined to the Nilgiris. The others are cold weather visitants to the plains, retiring to the alpine Himalayas to breed. So also with the true pipits (*Anthus* as restricted), which are known to breed on this side of the snows. Of the titlarks (*Corydalla*), one (*C. rufula*) is a very common permanent resident throughout the plains. The others are only cold weather migrants. Of the stone pipits (*Agrodroma*), one (*A. griseorufescens*) is a cold weather visitant to the plains, but breeds in the north-western Himalayas; another (*A. campestris*) is abundant in the cold weather, and is said to breed in the plains, but this requires confirmation; the third (*A. cinnamomea*) is confined to the Nilgiris, where it is a permanent resident. The genus *Heterura*, of which there is only one species in India, is confined to the Himalayas, where it is a permanent resident. All the pipits make their nest on the ground, sheltered by grass, on open plains or hill sides, and lay richly blotched or spotted eggs.

Thrush tits, (*Cochoa*).—Are a very remarkable group of birds. They are confined to the eastern Himalayas, frequent forests at moderate elevations, and in their nidification and eggs much resemble blackbirds. There are only two species in India, both rare.

Shrike tits, (*Pterulhius*).—Are confined to the Himalayas. Of one kind (*P. rufiventer*), the nest has never been found. Of the other (*P. erythropterus*), the egg is one of the rarest in collections. The shrike tits are arboreal in their habits, frequent well-wooded slopes at moderate elevations. They lay speckled eggs in a basket-shaped nest of moss and roots hung from a fork near the top of a tree.

Hill tits, (*Allotrius*, *Cutia*, *Leioptila*, *Leiothrix*, *Siva*, *Minla*, *Proparus*, *Ixulus*, *Yuhina*, *Myzornis*, *Erpornis*).—Are also confined to the Himalayas, and with few exceptions to the eastern Himalayas and such outlying ranges as the Khasia hills. They are very arboreal in their habits, frequent well-wooded tracts, and generally associate in small flocks. They usually make rather massive cup-shaped nests, about five to ten feet from the ground, and lay spotted eggs, in which the markings frequently form a zone at the large end. One species (*Yuhina nigrimentum*) is known to lay pure white eggs, and another (*Myzornis pyrrhoura*) is believed to lay unspotted eggs also. As a rule these birds are not migratory, but breed wherever they are found.

Tits, (*Zosterops*, *Sylviparus*, *Cephalopyrus*, *Egithaliscus*, *Lophophanes*, *Parus*, *Machlolophus*, *Melaniparus*, *Melanochlora*).—Are as a rule confined to the Himalayas. One (*Zosterops palpebrosus*) is found throughout India as a permanent resident. One (*Parus cinereus*) is found in all wooded hills. Another (*Parus nuchalis*) is only found in central and south India. Another (*Machlolophus jerdoni*) is only found in the hills of south India. All the rest are confined to the Himalayas, and a great number of them are found in the eastern Himalayas only. They are not as a rule migratory, and are by no means shy, often associating in small flocks. The nest and eggs of *Zosterops palpebrosus* are quite aberrant (the eggs are pale unspotted blue). The nest of *Sylviparus* is unknown. So also are those of *Melaniparus* and *Melanochlora*. The nest of *Egithaliscus* is like that of the bottle tits in England, while all the others are typically “parine” in their nidification, building in holes, in walls, or decayed trees, and laying spotted eggs.

Hedge sparrows, (*Accentor*).—There are several kinds of hedge sparrows found in the upper regions of the Himalayas; but nowhere else in India. They are not migratory, and their nests and eggs as far as is known are similar to those of the hedge sparrow in England.

Ravens and crows, (*Corvus*).—Ravens are found only in the Himalayas and western continental India. They frequent open country, and do not appear to be entirely migratory, though they wander far in the cold weather. Crows are found all over India. Their nests and eggs are all of one general type, which is well known.

Jackdaws, (*Colæus*).—One species, the common jackdaw (*C. monedula*) is found in the north-west Himalayas, where it is a permanent resident. Its habits are well known. It migrates to the Punjab in the winter, but does not breed there.

Nutcrackers, (*Nucifraga*).—Are confined to the Himalayas, chiefly the western Himalayas. They keep to rather high elevations, frequent pine forests, and in habits closely resemble jays and magpies. They are not migratory.

Magpies, (*Pica*).—Two species occur in the alpine Himalayas, where they are permanent residents. Their habits are identical with those of the English magpie.

Jays, (*Garrulus*, *Urocissa*, *Cissa*).—Are found only in the Himalayas within the Indian limit. They keep to open forests, are not migra-

tory, and feed partly on the ground. The eggs of all are profusely spotted, and the nest is generally a loose structure of twigs, with a slight inner casing of fine roots.

Tree pies, (*Dendrocitta*).—Are found throughout India in wooded country. Their habits and nests are very similar to those of the jays, and they do not migrate, but the eggs are less thickly spotted.

Choughs, (*Fregilus*, *Pyrrhonorax*).—Are permanent residents in the alpine Himalayas; but their breeding in this country has only very recently been ascertained. They nestle in holes, in rocks, and in buildings, and their eggs are similar to those of the European chough. A few migrate as far south as the Punjab in the cold weather.

Starlings, (*Sturnus*).—Are cold weather visitants to the plains of India, migrating north and west to breed. One only (*S. nitens*) breeds within our limits in Kashmir and the extreme north-west Punjab. They build in holes and lay unspotted blue eggs.

Mynahs, (*Sturnopastor*, *Acridotheres*, *Temenuchus*, *Pastor*, *Saraglossa*, *Eulabes*).—As a rule these birds are not migratory. The genus *Pastor* perhaps more properly belongs to the starlings. The only species of *Pastor* that occurs here (*P. roseus*) is very migratory, and does not breed in this country. The true mynahs (*Acridotheres*, *Temenuchus*, *Sturnopastor*) are very domestic, and are found almost everywhere. The stare (*Saraglossa*) is confined to the Himalayas, and the grackles (*Eulabes*) to warm forest country. All build in holes, except the pied mynah (*S. contra*) which makes a conspicuous nest like a truss of hay in the outer fork of a bare tree. The eggs of the rose-coloured pastor (*P. roseus*) are not known. The true mynahs lay unspotted blue eggs. But the eggs of the stare and of the grackles are all spotted.

Weaver birds, (*Ploceus*).—Are highly gregarious, but not migratory. They are somewhat locally distributed, and prefer wooded country near long grass and water. They lay pure white eggs.

Munias, (*Munia*, *Estrela*).—Are all permanent residents in some part of India. They wander a good deal in the cold weather, and frequent grass jungle near water or open glades in forests. They make large rough globular nests and lay pure white eggs.

Sparrows, (*Passer*).—Are widely distributed and do not as a rule migrate, though in the winter they associate in flocks. Their eggs are all profusely spotted.

Buntings, (*Emberiza*, *Euspiza*, *Melophus*).—Are usually migratory

birds, found in this country chiefly in the cold weather. Two species (*Emberiza striolata* and *Melophus melanicterus*) are permanent residents and breed in the plains. Two or three kinds of buntings breed in the Himalayas, but all the rest go further north or west to breed. They frequent open ground or rocks with scanty jungle. The corn buntings (*Euspiza*) are generally found in cultivated ground. They all nestle on or close to the ground, under shelter, and the eggs are spotted and often scrawled with fine hair-like lines.

Finches, (*Hesperiphona*, *Mycerobas*, *Pyrrhula*, *Pyrrhoplectes*, *Loxia*, *Hæmatospiza*, *Propyrrhula*, *Carpodacus*, *Propasser*, *Procarduelis*, *Pyrrhospiza*, *Callacanthus*, *Carduelis*, *Chrysomitris*, *Metoponia*, *Fringilla*, *Montifringilla*, *Fringillauda*).—A few finches wander to the foot of the hills in the winter, but the common rose finch (*Carpodacus erythrinus*) is the only one found in the plains of India. All the others occur in the Himalayas only, chiefly at high elevations. They are all more or less migratory. Of arboreal habits, frequenting forests and wooded tracts, and of their breeding, very little is known. All the eggs of this group that are known are prettily, some very handsomely, marked.

Bush larks, (*Mirafra*).—Are spread throughout the plains of India. They frequent open forests, grass jungle, and edges of cultivation, are not migratory, build on the ground in short grass, and lay profusely spotted eggs.

Finch larks, (*Ammomanes*, *Pyrrhalauda*).—Are also permanent residents of the plains of India frequenting drier and more open ground and avoiding cultivation. They are widely distributed. Their eggs are profusely speckled.

Larks, (*Calandrella*, *Melanocorypha*, *Alaudala*, *Otocoris*, *Spizalauda*, *Alauda*, *Galerita*, *Certhilauda*).—Are more or less migratory, associating in flocks in the cold weather, but many species breed in India. The short-toed larks (*Calandrella*), the calandra larks (*Melanocorypha*), the horned larks (*Otocoris*), and probably also the desert larks (*Certhilauda*) are merely cold weather visitants, and do not breed at all within our limits. The Himalayan sky lark (*A. dulcivox*) breeds only in the Himalayas, while the others breed in suitable localities throughout the country. The sky larks (*Alauda*) affect damp grassy spots. The sand larks (*Alaudala*) frequent the sandy beds of large rivers. All the others are found in dry, open, or cultivated plains. They all build on the ground and lay spotted eggs.

Pigeons, (*Treron*, *Crocopus*, *Osmotreron*, *Sphenocercus*, *Carpophaga*, *Alsocornus*, *Palumbus*, *Palumbæna*, *Columba*).—There are several well-marked groups of pigeons. The green pigeons (*Treron*, *Crocopus*, *Osmotreron*, *Sphenocercus*) are forest-loving, fruit-eating birds, partly gregarious, and wandering a good deal during the winter, though all are permanent residents of the Indo-Malayan region, and the species that occur in India breed there too. The imperial pigeons (*Carpophaga*) are similar in their habits, but even more confined to dense forests. The wood pigeons (*Alsocornus*, *Palumbus*) are more migratory, more shy, and with one exception confined to mountain ranges. The stock pigeon (*Palumbæna*) is strictly migratory, visiting India in the cold weather only, in vast flocks. The true pigeons (*Columba*) are gregarious, and are probably permanent residents where they occur, but this has only been ascertained in the case of the common blue pigeon (*C. intermedia*). All pigeons lay either one or two pure white eggs on a small rough platform of sticks.

Doves, (*Macropygia*, *Turtur*, *Chalcophaps*).—Are less gregarious than pigeons. They all breed in India. Only one, Sykes' turtle dove (*T. meena*), appears to wander much from its breeding place. They feed almost entirely on the ground, and are very widespread in this country. They lay two pure white eggs on a tiny platform of sticks.

Sandgrouse, (*Pterocles*, *Syrnhaptes*).—Are usually only cold weather visitants to this country. They associate in large flocks, and frequent dry, open, or cultivated plains. The painted sandgrouse (*P. fasciatus*) affects rocky ground, and the Thibetan sandgrouse (*Syrnhaptes tibetanus*) is only found in the Himalayas at great elevations. Two only of the sandgrouse, the common and the painted, are known to breed with any regularity in this country. Their eggs are richly coloured and blotched. In shape they are elongated and cylindrical. The eggs of a third kind *P. lichtensteini* have lately been taken in Sind.

Pheasants, (*Pavo*, *Polyplectron*, *Lophophorus*, *Cerionis*, *Euplocamus*, *Ithaginis*, *Pucrasia*, *Phasianus*, *Gallophasis*).—With the exception of the peacock (*Pavo cristatus*), which is found in wooded tracts throughout India, the *Phasianidae* are confined to the Himalayas. They are found at all elevations, but only in forest country, with dense undergrowth. They are all permanent residents, breeding on the mountains, and descending into the valleys in the winter to feed. The eggs of many of them are boldly blotched, while others approach closely to the eggs of domestic fowls.

Jungle fowl, (*Gallus*).—Are more tropical birds, being found in dense thickets and forests throughout the country. They too are permanent residents, breeding where found. The eggs are like those of the Cochin-China fowls.

Spur fowl, (*Galloperdix*).—Are confined to rocky ridges and the dense jungles that fringe their bases in central and southern India where they breed. They are shy and wary, and conceal themselves in the densest cover. The eggs vary from creamy white to “café au lait.”

Grouse, (*Tetraogallus*, *Lerwa*).—Are only found near the snow in the alpine Himalayas. They lay boldly blotched eggs as far as has been ascertained, and frequent grassy and rocky slopes near snow.

Partridges, (*Perdix*, *Francolinus*, *Caccabis*, *Ammoperdix*, *Ortognis*, *Arboricola*).—Of the true partridges only one (*P. hodsoniæ*) is found in India. It frequents the alpine Himalayas at great altitude. The black and painted partridges (*Francolinus*) frequent thick jungle and grass near water and cultivation. The rock partridges (*Caccabis*, *Ammoperdix*) frequent rocky hills and open grassy slopes. Of the grey partridges one (*O. gularis*) is a swamp partridge found only in the Terai, the other is common where there is cover throughout the plains. Wood partridges (*Arboricola*) are only found in the Himalayas in dense under-wood in forests, and are difficult to flush. Partridges do not migrate and breed wherever found. The eggs of the chukor are spotted. All other partridges lay unspotted, buff, or cream coloured eggs.

Quails, (*Perdicula*, *Coturnix*, *Excalfatoria*, *Turnix*).—Some of the quails are migratory, but all that occur in India breed more or less in this country. The bush quails (*Perdicula*) frequent jungle and under-wood, so does the blue-breasted quail (*E. chinensis*). The other quails affect cultivation or grassy plains. The eggs of the bush quails are like miniature partridges' eggs. The eggs of the true quails (*Coturnix*) are boldly blotched; and those of the bustard quails and button quails are profusely spotted and speckled.

Bustards, (*Eupodotis*, *Houbara*, *Sypheotides*, *Otis*).—The great bustard (*E. edwardsii*) is a permanent resident in the arid portions of continental India, frequenting low scrub and scanty grass jungle. The florikin (*S. bengalensis*) is a permanent resident in the dense grass jungles of eastern upper India. The likh (*S. auritus*) is found throughout India in the cold weather in suitable localities, but as yet it has

only been known to breed in the Deccan among tufts of grass on cotton soil. The houbara and the true bustards (*Otis*) are only found in the arid plains of the extreme north-west. All the bustards lay dark-coloured handsomely marked eggs.

Plovers, (*Cursorius*, *Rhinoptilus*, *Glareola*, *Squatarola*, *Charadrius*, *Ægialites*, *Vanellus*, *Chettusia*, *Lobivanellus*, *Sarciophorus*, *Hoplopterus*, *Esacus*, *Ælicnemus*, *Strepsilas*, *Dromas*, *Hæmatopus*).—Plovers are more or less gregarious and widely spread in India. They frequent open country, avoiding forests entirely as a rule, and feeding on the ground in ploughed or fallow fields. The grey plover (*Squatarola helvetica*), the golden plover (*Charadrius longipes*), all the ringed plovers (*Ægialites*), except *Æ. curonicus*, the crested lapwing (*Fanellus cristatus*), the true lapwings (*Chettusia*), and the oyster catcher (*Hæmatopus ostralegus*), are migratory and only visit this country in the cold season. The remainder are either known or believed to breed in India. The courier plovers (*Cursorius*), the wattled lapwings (*Lobivanellus*, *Sarciophorus*), and the stone plover (*Ælicnemus*) breed in fields or plains away from water. Of the breeding of the genus *Rhinoptilus* nothing is known, but they frequent scanty jungle on rocky hills. The swallow plovers (*Glareola*), the ringed plovers (*Ægialites*), the spur-winged plovers (*Hoplopterus*), and the great stone plover (*Esacus*) lay their eggs on the bare sand in the beds of great rivers. While the turnstone (*Strepsilas interpres*) and the crab plover (*Dromas ardeola*) lay on the sand on the sea-coast. The eggs of all plovers are dark-coloured and richly marked.

Cranes, (*Grus*, *Anthropoides*).—The only crane that permanently resides in India is the sarus (*Grus antigone*). It feeds in open plains and fields, but breeds on islands in swamps among rushes. All the other cranes are migratory visiting India in the winter in large flocks. The eggs are spotted or blotched.

Snipe, (*Scalopax*, *Gallinago*, *Rhynchæa*).—The painted snipe (*R. bengalensis*) is the only permanent resident. It is somewhat local and affects thick weeds in marshy places. The woodcock (*S. rusticola*) visits the lower Himalayas in the winter, also the hilly portions of the south of India. A few pairs at least breed in the alpine Himalayas. The true snipe (*Gallinago*) are all migratory coming in the cold weather. A few of the common snipe may breed in the north-west Himalayas, but, as a rule, all the snipe go beyond Indian limits to breed. The eggs are handsomely marked.

Godwits, (*Macroramphus*, *Limosa*, *Terekia*).—Are only winter visitants. None of them breed in this country.

Curlews, (*Numenius*, *Ibidorhynchus*).—Are cold weather visitants and breed beyond the border.

Stints, (*Philomachus*, *Tringa*, *Eurinatorhynchus*, *Calidris*, *Phalaropus*).—Are merely cold weather visitants.

Sandpipers, (*Actitis*, *Totanus*, *Himantopus*, *Recurvirostra*).—Are all migratory. The stilt (*H. candidus*) congregates for breeding purposes in one or more localities in the plains. The common sandpiper (*A. hypoleucos*) breeds in considerable numbers in the beds of rivers in Kashmir; but all the other birds of this class go beyond the border to lay their eggs. The eggs are spotted or blotched on a buffy ground.

Jacanas, (*Hydrophasianus*, *Metopidius*).—The water pheasants are permanent residents, frequenting weedy marshes. In the cold weather they retire to the moister districts, but in the rains they wander wherever there are marshes. They lay deep bronze-coloured eggs. In one species unmarked, in the other scrawled all over with fine black lines.

Coots, (*Porphyrio*, *Fulica*, *Gallinula*).—Are all permanent residents, frequenting marshes and ponds or dense thickets near water. They breed both in hills and plains. Their eggs are spotted.

Rails, (*Porzana*, *Rallus*).—Of these birds very little is known. They frequent dense weeds and thickets near water. They breed both in the hills and plains, but are flushed with difficulty, and it is not known whether they migrate. The eggs typically are spotted.

Storks, (*Leptoptilus*, *Mycteria*, *Ciconia*, *Melanopelargus*).—The true storks (*Ciconia*) are cold weather visitants, and do not breed in India. The adjutants (*Leptoptilus*) have special breeding places to which they resort. While the other storks (*Mycteria* and *Melanopelargus*) breed throughout India on high trees near water. Their eggs are dingy white unspotted.

Hérons, (*Ardea*, *Herodias*, *Demi-egretta*, *Buphus*, *Ardeola*, *Butorides*).—Are permanent residents, breeding on trees near water in all parts of India. They all lay unspotted blue eggs.

Bitterns, (*Ardetta*, *Botaurus*).—It is not as yet ascertained whether the common bittern (*Botaurus stellaris*) is a permanent resident, but probably it, as well as all the other bitterns, breeds in India. They frequent thick reeds in swamps, are very difficult to flush, and lay unspotted greenish eggs.

Night herons, (*Nycticorax*).—Are found near water. They are permanent residents breeding on trees, and sometimes it is said in reeds. They lay pale green eggs.

Ibises, (*Tantalus*, *Platalea*, *Anastomus*, *Threskiornis*, *Geronticus*, *Falcinellus*).—The glossy ibis (*Falcinellus igneus*) is a cold weather visitant, coming in in large flocks, and leaving the country when the breeding season comes. All the others are permanent residents, and are as a rule gregarious breeders, making their nests on high trees near water. The eggs of the pelican ibis (*T. leucocephalus*) are dull white; so also are those of the shell ibis (*A. oscitans*). Those of the white ibis (*T. melanocephalus*) are very pale green, and the spoonbill (*P. leucorodia*) and the king curlew (*G. papillosus*) lay spotted eggs.

Flamingoes, (*Phanicopterus*).—Are cold weather visitants, and do not breed in this country.

Geese, (*Anser*, *Sarkidiornis*).—The black-backed goose (*S. melanotus*) is found throughout the country in swampy parts and is a permanent resident. All the other geese leave India to breed elsewhere. The eggs are ivory white.

Ducks and Teal, (*Nettapus*, *Dendrocygna*, *Casarca*, *Tadorna*, *Spatula*, *Anas*, *Chaulelasmus*, *Dafila*, *Mareca*, *Querquedula*, *Branta*, *Aythya*, *Fuligula*, *Clangula*, *Mergus*).—Almost all the ducks are migratory coming to India for the winter months only. The cotton teal (*Nettapus coromandelianus*), the two whistling teal (*Dendrocygna arcuata* and *D. major*), the spotted-billed duck (*A. pæcilorhynchus*), and the pink-headed duck (*A. caryophyllacea*) are permanent residents, and breed where they occur in the plains of India. The mallard (*Anas boschas*) and the white-eyed duck (*Aythya nyroca*) remain to breed in Kashmir. All the rest go farther north towards central Asia. The eggs are glossy white, buff or "café au lait."

Grebes, (*Podiceps*).—The little grebe (*P. philippinus*) is found on tanks and ponds throughout India, and is a permanent resident. The crested grebe is a winter migrant in continental India, retiring to Kashmir to breed. The eggs are dull white.

Gulls, (*Larus*, *Xema*); **Petrels**, (*Thalassidroma*, *Pelicanoides*); **Puffins** (*Puffinus*).—Are found at sea round the coast. Some of the gulls coming far inland at times. None of these birds breed within our limits, but they are believed to lay on the rocky islands of the Red sea.

Terns, (*Sylochelidon*, *Gelochelidon*, *Hydrochelidon*, *Seena*, *Sterna*,

Sternula, *Thalasseus*, *Onochoprion*, *Anous*).—Terns are as a rule migratory, and congregate in flocks during the breeding season. The Caspian tern (*S. caspius*) does not breed in this country; and the gull-billed tern (*G. anglicus*) only breeds in the far north-west. The marsh terns (*Hydrochelidon*) breed here and there in India gregariously on weeds floating in swamps. The true terns (*Gelochelidon*, *Sterna*, *Seena*, *Sternula*) lay their eggs on the bare sand in the beds of large rivers. The sea terns (*Thalasseus*, *Onochoprion*, *Anous*) lay on bare rocky islands off the sea-coast. All the terns lay handsomely marked eggs.

Skimmers, (*Rhynchops*).—Are permanent residents here, and are similar in their eggs, habits, and distribution to the true terns (*Sterna*).

Fishers, (*Phaeton*, *Sula*, *Attagen*).—Are all sea-birds which are found in Indian waters, but which are not known to breed on our coasts.

Pelicans, (*Pelecanus*).—Pelicans are widely spread throughout India in the cold weather, but of their breeding here nothing is known. They are said to build on trees.

Cormorants, (*Graculus*).—Are permanent residents in India, frequenting rivers and large tanks. They are gregarious and consequently local breeders. The breeding of the big cormorant (*G. carbo*) is not accurately known; and this bird is certainly to a great extent migratory. The eggs of cormorants are dull chalky white.

Snake Birds, (*Plotus*).—Are permanent residents in India, and are similar in their habits and eggs to the cormorants.

PART II.

INDEX.

LIST OF BIRDS THAT ARE KNOWN TO BREED IN INDIA, SHOWING DURATION OF BREEDING SEASON.

THIS list only contains those birds of which the eggs have been taken : of course, many more birds do breed here, and further research would greatly extend the list.

Column I gives the number as in Jerdon's hand-book of the Birds of India. Where no number is given in this column, it indicates a species added to the list of birds of India, since Jerdon's book was published.

Column II gives the English name of each bird. In most cases the name as given by Jerdon is adhered to. In some cases where it seemed advisable the alterations introduced by Mr. Hume in his more recent works have been adopted ; and in a few cases alterations have been made which further knowledge has rendered desirable.

Column III gives the scientific name for each bird. In this column many deviations from the names as given by Jerdon, both generic and specific, will be found ; but the revisions shown in Mr. Gray's hand-list have not been adopted in their entirety as they quite revolutionise the nomenclature heretofore in use, and with which we have become through Jerdon's book familiar ; and though possibly Mr. Gray's list may be more scientifically correct, it is inexpedient to adopt it in this book which is written chiefly for beginners in this country, in whose hands Jerdon is the only text-book ; for the disadvantage of a wholesale change, especially on merely arbitrary points, is obvious. Where it has been absolutely necessary for accuracy, I have entered the new names ; and in case of a difference, the number (in Jerdon), which is quoted in Column I, will determine the bird referred to.

The remaining columns require little explanation. The portion marked off opposite each bird's name indicates the season and duration of the period in which its eggs may be found.

The breeding season thus noted includes every month in which each bird is known to breed in any locality. Where the breeding of a bird is confined for any particular season to any particular locality, a letter signifying the locality is placed over the line denoting the breeding during that month. Where no distinguishing letter is placed over the line, it indicates that the bird in that month is breeding wherever it is found.

Thus :—B. over the line signifies “ Bengal.”

C.	”	”	“ Central Provinces only.”
H.	”	”	“ Himalayas only.”
I. P.	”	”	“ The plains of India.”
K.	”	”	“ Kumaon only.”
M.	”	”	“ Moist tracts only.”
N.	”	”	“ Nilgiris only.”
P.	”	”	“ Punjab only.”
R.	”	”	“ Rajputana only.”
S.	”	”	“ South India only.”
U.	”	”	“ Upper India.”

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B

[illegible]

[illegible]

Nos. in Jerdon.	English Names.	Scientific Names.	Jan.	Feb.	March	April.	May	June	July.	Augt.	Sept.	Oct.	Nov.	Dec.
280	The long-tailed drongo Shrike	Dicrurus longicaudatus												
	Walden's "	" waldeni												
281	The white-bellied "	" cœrulescens												
282	The bronzed "	Chaptia cœnea												
283	The oar-tailed "	Bhringa remifer												
284	The Northern racket-tailed "	Edolius paradiseus												
286	The hair-crested "	Chibia hottentota												
287	The ashy swallow Shrike	Artamus fuscus												
288	The paradise Flycatcher	Tchitrea paradisei												
290	The black-naped azure "	Myiagra azurea												
291	The white-throated Fantail	Leucocerca fuscoventris												
292	The white-browed "	" aureola												
293	The white-spotted "	" pectoralis												
294	The yellow-bellied "	Chelidorhynch hypoxanthus												
295	The grey-headed Flycatcher	Cryptolopha cinereocapilla												
296	The sooty "	Hemichelidon fuliginosa												
300	The black and orange "	Ochromela nigrorufa												
301	The verditer "	Eumyias melanops												
302	The Nilgiri blue "	" albicaudata												
304	The blue-throated Redbreast	Cyornis rubeculoides												
305	The southern blue "	" banyumas												
306	Tickell's blue "	" tickelliæ												
310	The white-browed blue Flycatcher	Muscicapulasuperciliaris												
314	The fairy "	Niltava sundara												
315	McGregor's fairy "	" macgrigorice												
316	The great fairy "	" grandis												
320	The slaty "	Siphia leucomelanura												
321	The rufous-breasted "	" superciliaris												
	The grey robin "	Erythrosterina parva												
324	The white-tailed robin "	" hyperythra												

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Nos. in Jerdon	English Names.	Scientific Names.	Jan.	Feb.	March.	April.	May.	June.	July.	Augt.	Sept.	Oct.	Nov.	Dec.
	The grey-faced Warbler	Abrornis chloronotus					-	-						
573	The white-browed „	,, albosuperciliaris			-	-	-							
	The chestnut-headed „	,, castaneiceps					-	-						
580	The Indian golden-crested Wren	Regulus himalayensis					-	-						
582	The Indian Whitethroat	Sylvia affinis					-	-						
584	The western-spotted Forktail	Henicurus maculatus				-	-	-						
586	The slaty-backed „	,, schistaceus					-	-	-					
587	The little „	,, scouleri					-	-						
	The eastern-spotted „	,, guttatus					-	-						
589	The Indian pied Wagtail	Motacilla maderaspatana	S-		-	-	-							S-
590	The white-faced „	,, luzionensis					-	-						
592	The grey and yellow „	,, melanope					-	-						
	The black-backed yellow-headed „	Budytes calcaratus					-	-						
596	The Indian Pipit	Anthus arboreus					-	-						
597	The Tree „	,, maculatus					-	-						
598	The Nilgiri „	,, montanus					-	-						
600	The Indian Tit Lark	,, rufulus				-	-	-						
605	The ruddy Pipit	,, rosaceus					-	-						
603	The Nilgiri Tit Lark	Agrodroma cinnamomea				-	-	-						
604	The brown Rock Pipit	,, griseorufescens					-	-	-					
606	The upland „	Heterura sylvana				-	-	-						
607	The purple Thrush Tit	Cochoa purpurea					-	-						
608	The green „ „	,, viridis					-	-						
609	The red-winged Shrike „	Pteruthius erythropterus					-	-						
614	The red-billed Hill ,	Leiothrix luteus				-	-	-						
615	The silver-eared „ „	,, argentarius					-	-						
616	The stripe-throated „ „	Siva strigula					-	-						
617	The blue-winged „ „	,, cyanouroptera					-	-						
618	The red-tailed „ „	Minla ignotincta					-	-						
619	The chestnut-headed „ „	,, castaneiceps					-	-						

Nos. in Jordan.	English Names.	Scientific Names.	Jan.	Feb.	March.	April.	May.	June.	July.	Augt.	Sept.	Oct.	Nov.	Dec.
678	The long-tailed Treepie	<i>Dendrocitta leucogastra</i>												
682	The bright Starling	<i>Sturnus nitens</i>												
683	The pied Mynah	<i>Sturnopastor contra</i>												
	The Burmese pied „	„ <i>superciliaris</i>												
684	The common „	<i>Acridotheres tristis</i>												
685	The bank „	„ <i>ginginianus</i>												
686	The jungle „	„ <i>fuscus</i>												
687	The brahminy „	<i>Temenuchus pagodarum</i>												
688	The grey-headed „	„ <i>malabaricus</i>												
691	The spotted-winged Stare	<i>Saraglossa spiloptera</i>												
692	The southern hill Mynah	<i>Eulabes religiosa</i>												
693	The large hill „	„ <i>intermedia</i>												
694	The common Weaver Bird	<i>Ploceus baya</i>												
695	The striated „ „	„ <i>manyar</i>												
696	The black-throated „ „	„ <i>bengalensis</i>												
697	The black-headed Munia	<i>Munia malacca</i>												
698	The chestnut-bellied „	„ <i>rubroniger</i>												
699	The spotted „	„ <i>undulata</i>												
700	The rufous-bellied „	„ <i>pectoralis</i>												
701	The white-backed Munia	„ <i>striata</i>												
702	Hodgson's „	„ <i>acuticauda</i>												
703	The pin-tailed „	„ <i>malabarica</i>												
704	The Indian Amadavat	<i>Estrela amandava</i>												
705	The green „	„ <i>formosa</i>												
706	The Indian house Sparrow	<i>Passer indicus</i>												
708	The cinnamon-headed „	„ <i>cinnamomeus</i>												
710	The tree „	„ <i>montanus</i>												
711	The yellow-throated „	„ <i>flavicollis</i>												
713	The meadow Bunting	<i>Emberiza cia</i>												
	The striolated „	„ <i>striolata</i>												

Nos. in Jerdon.	English Names.	Scientific Names.	Jan.	Feb.	March.	April.	May.	June.	July.	Augt.	Sept.	Oct.	Nov.	Dec.
784	The Himalayan wood Pigeon	<i>Palumbus casiotis</i>						—						
786	The Nilgiri „ „	„ <i>elphinstonii</i>					—							
788	The Indian blue rock „	<i>Columba intermedia</i>	—	—	—	—	—							
791	The bar-tailed tree Dove	<i>Macropygia tusalia</i>					—	—	—					
792	Hodgson's turtle „	<i>Turtur rupicola</i>					—			—				
793	Sykes' „ „	„ <i>meena</i>	—	—	—	—								
794	The brown „ „	„ <i>cambaiensis</i>	—	—	—	—	—				—			
795	The spotted „	„ <i>suratensis</i>			—	—	—							
796	The Indian ring „	„ <i>risorius</i>	—	—	—	—	—							—
797	The ruddy „ „	„ <i>humilis</i>	—	—	—	—	—							
798	The emerald „	<i>Chalcophaps indicus</i>		—	—	—	—							
800	The painted sand Grouse	<i>Pterocles fasciatus</i>				—	—					—		
802	The common „ „	„ <i>exustus</i>	—	—	—	—	—							—
803	The Peacock	<i>Pavo cristatus</i>									—			
804	The Moonal	<i>Lophophorus impeyanus</i>												
805	The red Argus	<i>Cerionis satyra</i>												
806	The black-headed „	„ <i>melanocephala</i>												
808	The Koklas	<i>Pucrasia macrolopha</i>												
809	The cheer Pheasant	<i>Phasianus wallichii</i>												
810	The white-crested Kalij „	<i>Gallophasis albocristatus</i>												
811	The black-backed „ „	„ <i>melanotus</i>					—	—	—					
812	The red jungle Fowl	<i>Gallus ferugineus</i>		—	—	—	—							
813	The grey „ „	„ <i>sonneratii</i>	—	—	—	—	—							
814	The red spur „	<i>Galloperdix spadiceus</i>	—	—	—	—	—							
815	The painted „ „	„ <i>lunulosus</i>	—	—	—	—	—							
816	The snow Pheasant	<i>Tetraogallus himalayensis</i>					—	—						
817	The snow Partridge	<i>Lerwa nivicola</i>				—	—							
	Hodgson's „	<i>Perdix hodgsoniæ</i>							—	—				
818	The black „	<i>Francolinus vulgaris</i>					—	—	—	—				
819	The painted „	„ <i>pictus</i>						—	—	—	—			

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Nos. in Jerdon.	English Names.	Scientific Names.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
937	The Night Heron	Nycticorax griseus				-H-								
938	The pelican Ibis	Tantalus leucocephalus										-	-	
939	The Spoonbill	Platalea leucorodia												
940	The shell Ibis	Anastomus oscitans						-						
941	The white „	Threskiornis melanocephalus												
942	The King Curlew	Geronticus papillosus			-C-								-S-	
949	The bar-headed Goose	Anser indicus					-							
950	The black-backed „	Sarkidiornis melanotus												
951	The cotton Teal	Nettapus coromandelianus												
952	The Whistling „	Dendrocygna arcuata						-						
953	The large „ „	„ major												
954	The Brahminy Duck	Casarca rutila					-							
958	The Mallard	Anas boschas					-							
959	The spotted-billed Duck	„ pœcilorhyncha										-	-	
960	The pink-headed „	„ caryophyllacea												
969	The white-eyed „	Aythya nyroca					-							
974	The crested Grebe	Podiceps cristatus												
975	The little „	„ philippensis				-H			N	-				
983	The gull-billed Tern	Gelochelidon anglicus					-							
984	The whiskered „	Hydrochelidon indicus												
985	The large river „	Sterna seena					-							
987	The black-bellied „	„ javanica					-							
988	The little „	Sternula minuta					-							
989	The large sea „	Thalasseus cristatus												
990	The small „ „	„ bengalensis												
991	The little black-naped „	Onochoprion melanauchen												
995	The Scissorbill	Rhynchops albigollis					-							
1005	The common Cormorant	Graculus carbo					-							
1006	The lesser „	„ fuscicollis											-	-
1007	The little „	„ javanicus											-	-
1008	The Indian Snake Bird	Plotus melanogaster	-S							-U-				

PART III.

CALENDAR.

THE columns of the accompanying calendar give the leading details for each month. The wording is necessarily brief, as the space is limited.

The first column gives the number in Jerdon's Hand-Book for reference. Where no number is given in this column, the bird has been added to the Indian list since Jerdon's book was published.

The next column gives the generally accepted English name. Jerdon's names have been adhered to in almost every case.

The third column is the scientific name. In this no alteration has been made, unless clearly proved to be necessary.

The next column "shape of nest."

And the one following "site of nest," need no comment.

The column headed "geographical range in breeding season" gives roughly the extent of country in which the bird is known to breed at one time or another, but it does not follow that it breeds throughout the whole of the range in that particular month.

The last column "particulars for the month" gives actual facts as ascertained by experience, leaving the reader to draw his own inference. Representative dates have been chosen so far as possible when more than one date was available; for instance, if the season is beginning, the earliest date has been selected; and if the season is nearly over, the latest date has been taken. Similarly, in regard to localities, only one or two could be specified, and the same rule has been followed. Where the breeding is over a wide stretch of country, the two limits are given. Where any particular climate is more favorable, the typical place has been selected; of course, when only one nest has been found, the date of that is given, and there can be no selection, but the places and dates are records in every case of actual ascertained facts.

JANUARY.

JANUARY is in all parts of the country the month for the larger birds of prey. Of the fifty-six kinds of birds known to breed at this time, twenty-eight belong to this order (*Raptores*).

In the HIMALAYAS, with the exception of a solitary instance of a nest of the brown water ouzel (*Hydrobata asiatica*), none but the nests of raptores have been found. Vultures, eagles, falcons, and kites are either building or laying, and as these birds are comparatively few in numbers, with great powers of flight, it is necessary to explore over a large extent of country to get many eggs; both birds and nests are conspicuous. Eyries can generally be marked down in the course of the morning's ride, and arrangements made afterwards for obtaining the eggs; a matter often of no small difficulty, as, whether the nest is on a ledge of the rock itself or in a tree, it is generally on the face of a precipice, which it requires both skill and nerve to surmount.

In the PUNJAB, besides the birds of prey, the raven, the striated bush babbler, and the dusky sand martin have eggs. Watch should be kept on all the large birds of prey, and every large solitary tree should be scanned, as it is on such trees that nests of eagles, vultures, &c., will be found. These nests are conspicuous from a distance. I have often seen and noted them while passing along on a railway journey, returning when opportunity offered to examine the nest.

In the NORTH-WEST PROVINCES the Indian hoopoe, the sand martin, the pin-tailed munia, the blue rock pigeon, the common sand grouse, and the doves have eggs, as well as the vultures and eagles, and falcons and some of the owls.

In BENGAL, the sand martin is the only bird now breeding in any quantities, besides the birds of prey.

In CENTRAL INDIA, the dusky crag martin, the munias and amadavats, and doves have eggs, besides the birds of prey which lay everywhere at this period.

In SOUTH INDIA, the large birds of prey are few in number, but the eggs of many other kinds may now be sought for. Some species of woodpeckers, martins, honey suckers, flower peckers, quaker thrushes, bulbuls, bluebirds, wagtails, finch larks, doves, quail, and water birds are already known to breed there at this season, and it is probable



MARSHALL DEL

NEST OF THE KING VULTURE,

Otogyps calvus.)

that further search will lead to the discovery of many others. Our knowledge of that part of India is comparatively very incomplete.

Besides the birds noted in the list, there are many that are known to lay early in February, and which may possibly sometimes lay in the end of January; at all events they will be building in the present month, and careful watch should be kept over their movements.

Among these may be noted in the HIMALAYAS the *black-capped falcon* and the *imperial eagle*.

In the PUNJAB, the *bay vulture* and the *imperial eagle*, these are both rare birds, and few collections contain specimens of their eggs taken in India.

In the NORTH-WEST PROVINCES, the *spotted owlet* begins to lay towards the end of the month, as also the *little ringed plover*, for which watch should be kept on the sands in the beds of big rivers, more especially on the flat sandy islands left by the receding floods.

In CENTRAL INDIA, the *bay vulture* is building, and the *grey partridge* commences to pair.

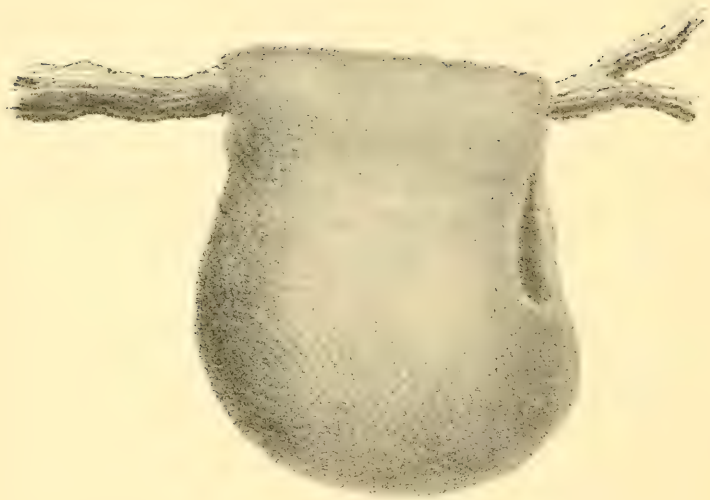
In SOUTHERN INDIA, the *kestrel* commences building in the Nilgiris, also the *red spur fowl*, while in Travancore the *booted eagle*, the *grey fronted green pigeon*, and the *grey jungle fowl* are pairing and preparing their nests.

JANUARY.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
2	The king Vulture	Otogyps calurus ...	A large plat- form.	On the tops of high trees.	Throughout continent- al India.	The Deccan; eggs.
3	The roc	Gyps himalayensis ...	Ditto ...	On ledges of cliffs.	The Himalayas only	Kangra, 23rd; eggs.
4	The pale long-billed "	" pallescens ...	Ditto ...	Ditto ...	Western and central India.	Ajmer, 20th; eggs.
5	The long billed "	" indicus ...	Ditto ...	At tops of high trees	The plains of upper India.	Lower Bengal; eggs.
6	The white-backed "	" bengalensis ...	Ditto ...	Near tops of large trees.	Throughout continent- al India.	Throughout the month.
7	The white scavenger "	Perenopteron ginginianus	Platform ...	On cliffs or large trees.	Throughout India ...	Nest building begins.
9	The bearded "	Gypaetus barbatus ...	A large plat- form.	On ledges of cliffs...	The Himalayas and Sulciman range.	Kangra, 2nd; eggs.
11	The shahin Falcon	Falco peregrinator ...	Ditto ...	Ditto ...	Locally throughout India.	Raipur (C. P.), 25th; eggs.
16	The laggur "	" juggur ...	Ditto ...	On high trees or cliffs.	The dry plains of upper India.	Throughout the month.
29	The red-headed Merlin	Lithofalco chiqueura ...	A compact massive cup.	In forks of trees ...	Throughout the plains	Fatehgurh (N. W. P.), 9th; eggs.
32	The Indian tawny Eagle	Aquila vindhyana ...	A large plat- form.	On high trees ...	The dry parts of upper India.	Hansi, Agra; eggs.
33	The black "	Neopus malaensis ...	Ditto ...	On ledges of cliffs...	The Himalayas ...	Bussahir, 4th; Kooloo, 7th; eggs
36	Bonellis "	Nisactus bonellii ...	Ditto ...	On cliffs or high trees.	Throughout India ...	Aligurh, 20th; Kangra; 20th; eggs.
41	The Nipal hawk "	Spizaetus nipalensis ...	Ditto ...	On high trees. ...	The Himalayas ...	Bussahir, 5th; eggs (very early).
42	The bar-tailed fishing "	Polioactus ichthyactes	Ditto ...	Ditto ...	Eastern and peninsular India.	(Requires confirmation).
	The Himalayan "	" plumbeus ...	Ditto ...	Ditto ...	The Himalayas ...	Nest building begins.
	The ring-tailed "	Haliaetus leucorhynchus	Ditto ...	On high trees by water.	Throughout northern India.	Breeding season ends.

43	The white-bellied Sea "	leucogaster	Ditto	On high trees	All round the coasts	Calcutta, 28th; eggs.
45	The long-legged Buzzard	Buteo canescens	Irregular plat- form.	On high trees or cliffs.	Punjab and north- western Himalayas	Kooloo, 10th; eggs.
55	The Brahminy Kite	Haliastur indus	Ditto	On high trees near water.	Throughout the plains	Nest building begins.
56	The common "	Milvus govinia	Ditto	In forks of trees	Throughout India	Bengal and south India; eggs.
	The greater Indian "	" major	Ditto	Ditto	The western Hima- layas.	Nest building begins.
59	The black-winged "	Elanus melanopterus	Shallow com- pact cup.	Ditto	Throughout India (lo- cally)	Sumbulpur (C. P.), 10th; eggs.
60	The Indian screech Owl	Strix indica	None	In holes in trees or buildings.	Throughout the plains	A few stragglers breed.
65	The mottled wood "	Bulacca sinensis	Ditto	In holes or hollows on large trees.	Ditto	Ditto.
69	The rock-horned "	Ascalaphia bengalensis	Ditto	On ledges of banks	Throughout India	Ditto.
70	The dusky-horned "	" coromanda	A large plat- form.	In forks of large trees	Throughout the plains	Throughout the month.
72	The brown fish "	Ketupa ceylonensis	None	In clefts of rocks or old trees	Throughout India	Etawah; eggs.
	Pennant's scops "	Ephialtes griseus	Ditto	In holes in trees	Throughout continen- tal India.	Breeding season begins.
88	The dusky sand Martin	Cotyle subocata	A loose cup.	In holes in river bank (gregarious.)	Northern India	Etawah, 11th; eggs.
89	The Indian "	" sinensis	Ditto	Ditto (do.)	Throughout India (late in south).	Calcutta; eggs.
90	The dusky erag "	" concolor	A deep semi- circular cup	Against buildings or rocks	Throughout India (lo- cally).	Jhansi, Saugor; eggs.
167	The southern golden- backed Woodpecker	Chrysocolaptes delesserti	None	In artificial holes in trees.	Hills of south India	Throughout the month.
232	The amethyst rumped Honeysucker	Leptocoma zeylanica	Pear-shaped, with side entrance.	Hanging from tips of branches.	Lower Bengal and peninsular India.	A few stragglers breed.
234	The purple "	Arachnechthra asiatica	Ditto	Ditto	Throughout India pro- per.	The Nilgiris; eggs.
239	The Nilgiri Flower-pecker	Dicaeum concolor	Purse-shaped, with front entrance.	Hanging from twigs in thick foliage	The Nilgiris	Kotagiri, 24th; eggs.
254	The Indian Hoopoe	Upupa nigripennis	A few fea- thers or leaves	In holes in trees or walls.	Throughout India	Allahabad, 25th; eggs.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
347	The brown water Ouzel	<i>Hydrobata asiatica</i> ...	A large ball of moss.	In clefts of rocks near water.	The Himalayas only ...	Masuri, 18th; eggs.
389	The Nilgiri quaker Thrush	<i>Aleippe poiocephala</i> ...	A deep massive cup.	In forks of bushes or saplings.	The hills of south India.	Kotagiri, 21st; eggs.
438	The striated bush Babbler	<i>Chattarhoa caudata</i> ...	Cup-shaped	In low bushes or tufts of grass.	Throughout the plains	Hansi (Punjab), 3rd; eggs
469	The southern red-whiskered Bulbul	<i>Otocompsa fuscicaudata</i> ...	A small neat cup.	In isolated bushes	The hills of south India.	Travancore; eggs.
589	The fairy Bluebird	<i>Irena puella</i> ...	A loose straggling cup.	In forks of small trees.	Southern India ...	Assamboo hills; eggs.
631	The Indian pied Wagtail	<i>Motacilla maderaspatana</i> ...	A shallow cup.	In holes in walls or on banks.	Throughout the plains	Madras, 20th; eggs.
657	The Indian white-eyed Tit	<i>Zosterops palpebrosus</i> ...	A tiny regular cup.	Hang from twigs in trees or bushes.	Throughout India ...	Nilgiris; eggs.
701	The Raven	<i>Corvus corax</i> ...	A large compact cup.	In forks of solitary trees.	Western continental India.	Sambhur, 24th; eggs.
703	The white-backed Munia	<i>Munia striata</i> ...	A large domed oval.	In small trees or thorny bushes.	The peninsular and eastern India.	Raipur (C. P.), 2nd; eggs.
704	The pin-tail "	" <i>malabarica</i> ...	Ditto ...	In small trees (or in eaves of houses).	Throughout India proper.	Etawah (N. W. P.), 22nd; eggs.
760	The Indian Amadavat	<i>Estrela amandava</i> ...	Ditto ..	In low thick bushes	Locally throughout India.	Raipur (C. P.); eggs.
766	The black-bellied finch Lark	<i>Pyrrhalauda grisea</i> ...	A tiny shallow pad.	On ground near elod or tussock.	Throughout the plains	Poona (Bo.); eggs.
788	The Indian blue rock Pigeon	<i>Columba intermedia</i> ...	A small platform form.	On ledges of buildings chiefly.	Throughout India ...	Upper India; eggs.
793	Sykes's turtle Dove	<i>Turtur meena</i> ...	A tiny platform form.	In low trees or among thick foliage.	Peninsular and eastern India.	Sumbulpur (C. P.); eggs.
794	The brown turtle "	" <i>cambaiensis</i> ...	Ditto ...	In low trees or bushes.	Throughout the plains	Etawah (N. W. P.), 1st; eggs.
796	The Indian ring "	" <i>risorius</i> ...	Ditto ...	Ditto ...	Ditto ...	Cawnpur, 1st; eggs.
797	The ruddy ring "	" <i>humilis</i> ...	Ditto ...	Ditto ...	Ditto (but local) ...	Nepal Terai; eggs.
802	The common Sandgrouse	<i>Pterocles exustus</i> ...	None ...	On open ground in fallow fields.	The dry plains of upper India.	Eastern Punjab; eggs.
828	The red-billed bush Quail	<i>Perdula erythrorhynchos</i> ...	Ditto ...	On the ground under shelter.	The Nilgiris ...	Kotagiri; eggs.
1008	The Indian snake Bird	<i>Plotus melanogaster</i> ...	A rough platform form.	On trees growing in water.	Throughout India ...	South of Madras; eggs.



MARSHALL DEL.

NEST OF THE THICK BILLED FLOWER PECKER.

(Piprisoma agile.)

FEBRUARY.

IN this month the birds of prey continue to lay, while other kinds commence. The eggs of several swallows and martins may now be found. Parrots, woodpeckers, and other climbing birds are pairing, and even commence excavating the holes for their nests. Several kinds of larks have eggs, others are pairing and building. Doves, of course, are breeding in this as in every other month. The spotted doves, which are more regular than the others, are commencing to build, and the jungle bush quail are pairing in all parts of the country.

In the HIMALAYAS, the roc vulture, the lammergeyer, the black-capped falcon, the hawk eagles, buzzards, kites, and water ouzels have eggs, while the *large barred owlet* and the *common Indian bushchat* are pairing and building throughout the range, and the *red-capped tit* and *crested black tit* begin to build in the eastern portions. The *Himalayan magpie* in all probability has eggs in this month.

In the PUNJAB, the vultures, falcons, eagles, Pennant's scops owls, the hoopoe, the grey shrike, the streaked scrub warbler, and the raven have eggs throughout the month, and the *rufous grass warbler*, the *common quail*, the *big bustard*, and in some places the *common heron* are building their nests.

In the NORTH-WEST PROVINCES, the laying season is fairly beginning. In addition to the vultures, falcons, eagles, &c., no less than seven kinds of owls have eggs. Swallows and martins begin laying; so do also the parrots, the purple honey-sucker, the flower-peckers, the streaked wren warbler, the bow-billed corby, the house sparrow, the finch larks and sand larks, the emerald dove, the ringed plover and the stone plover: and besides these, the following kinds should be watched as they commence building their nests, and possibly laying also during this month:—the *Indian scops owl*, the *palm swift*, the *rose-headed parroquet*, the *chestnut-bellied nuthatch*, the *common woodshrike*, the *brown-backed robin*, the *black bushchat*, the *common quail*, and the *spur-winged plover*. The *common heron* too begins building in parts of Oudh, and the *river terns* and *scissor bills* are now congregating on the islands, where in the next month they will breed.

In BENGAL, the eggs of the long-billed vulture and white-bellied sea eagle and changeable hawk eagle, and brahminy kite may be taken. The common sand martin is still laying. The yellow-fronted wood-

pecker has eggs, while the *palm roof swift* in the Garo hills, the *red-breasted parroquet*, the *common woodshrike*, and the *red jungle fowl* in the sub-Himalayan tracts are pairing off and preparing their nests. Here too the *river terns* and *scissor bills* are congregating.

In CENTRAL INDIA, the vultures and the brahminy kite, probably also the owls, and whatever species of eagles are found there, have eggs still. The cliff swallow and dusky crag martin are hatching their first brood. The pied kingfisher, the crimson-breasted barbet, the amethyst rumped honey-sucker, the Indian amadavat, and the finch-larks have eggs throughout the month, while the *painted spur fowl*, and probably also the *flower-peckers*, *nuthatches*, *woodpeckers*, *parrots*, *larks*, and some *plovers* are pairing. The *river terns* and *scissor bills* will also probably congregate here too in this month.

In SOUTHERN INDIA, the breeding season is by this time further advanced than in the north. The kestrel has eggs throughout the month in the Nilgiris. In the far south, eggs of the booted eagle may be taken, and also those of the common kite, the Nilgiri nightjar, the golden-backed woodpecker, the Nilgiri flower-pecker, the velvet-fronted nuthatch, the quaker thrushes, babblers, laughing thrushes, bulbuls, and bluebirds throughout the peninsular. In the Nilgiris the eggs of the white-eyed hill tit may be found, and the Indian grey tit, the jungle mynah, the crested larks, green pigeons, doves, jungle fowl, spur fowls, grey partridges, and bush quail are also sitting. In the extreme south the eggs of the snake bird, and possibly some other water birds, may still be found, but the season for them is virtually over. The following kinds are also commencing to pair and build their nests, and should be watched particularly towards the end of the month:—The *southern sirkeer*, the *little pied (flycatcher) shrike* (*Hemipus picatus*), the *spotted wren babbler*, the *black bulbul*, the *robins*, *bush chats*, *Nilgiri tit lark*, *long-tailed treepie*, and *Nilgiri sky lark*. Of these latter the eggs have not as yet been taken before the beginning of March.

FEBRUARY.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
2	The king Vulture	Otogyps calvus	A large platform.	On tops of high trees.	Throughout continental India.	Hansi, 20th; Agra, 10th; eggs.
3	The roc	Gyps himalayensis	Ditto	On ledges of cliffs	The Himalayas only	Kanra, 20th, young; 28th, eggs.
4	The pale long-billed	" pallascens	Ditto	Ditto	Western and central India	Ajmir, Aboo, Pachmari.
	The "	" indicus	Ditto	At tops of high trees.	The plains of upper India.	Calcutta, 5th; eggs.
5	The white-backed	" bengalensis	Ditto	Near tops of large trees.	Throughout continental India.	Agra, 10th, young; Punjab, eggs.
	The bay	" fulvescens	Ditto	Ditto	North-west and central India	Lahore, eggs; Satpura hills.
6	The white scavenger	Perenopteron gingivinus.	Platform	On cliffs or large trees.	Throughout India	A few stragglers breed.
7	The bearded	Gypaetus barbatus	A large platform.	On ledges of cliffs.	The Himalayas and Sulaiman range.	Kanra, 10th; eggs.
11	The black-capped Falcon The laggar	Falco atriceps " juggur	Ditto Ditto	Ditto On high trees or cliffs.	Ditto The dry plains of upper India.	Kooloo, 6th; eggs. Etawah, 15th; Jhelum, 12th; eggs.
16	The red-headed Merlin	Lithofalco chiequera	A compact massive cap.	In forks of trees	Throughout the plains.	Fatehauri (N. W. P.), 4th; eggs.
17	The Kestrel	Tinnunculus alaudarius	A large platform.	On ledges of cliffs	Himalayas, Nilgiris, and Sulaiman range	Nilgiris, 21st, 28th; eggs.
27	The imperial Eagle	Aquila mogilnik	Ditto	On tops of trees	The Punjab and western Himalayas.	Hansi, 22nd; eggs.
29	The Indian tawny	" vindhyana	Ditto	In high trees	The dry plains of upper India.	Hansi, 15th, eggs; Agra, 8th; young.
31	The booted	" pennata	Ditto	Ditto	Southern India	Salem, 21st; eggs.
33	Bonellis	Nisaetus bonellii	Ditto	On cliffs or high trees.	Throughout India	Kanra, 5th; eggs.
36	The Nepal hawk The changeable hawk	Spizaetus nipalensis " caligatus	Ditto Ditto	On high trees Ditto	The Himalayas Bengal and sub-Himalayas.	Masuri, 21st; eggs Calcutta, 15th; eggs.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
38	The short-toed Eagle	<i>Circæetus gallicus</i> ...	A large plat form...	Usually on high trees.	The dry plains of upper India.	Hansi, 6th, 26th; eggs.
41	The bar-tailed fishing "	<i>Polliaetus ichthyæetus</i> ...	Ditto ...	On high trees near water.	Eastern and peninsular India.	(Requires confinement.)
42	The ring-tailed fishing "	<i>Haliaetus leucoryphus</i> ...	Ditto ...	Ditto ...	Throughout northern India.	A few stragglers breed still.
43	The white-bellied sea "	" <i>leucogastra</i> ...	Ditto ...	On high trees ...	All round the coast ...	Calcutta, 5th; eggs.
45	The long-legged Buzzard	<i>Buteo canescens</i> ...	Irregular platform...	On high trees or cliffs.	The Punjab and western Himalayas.	Kooloo, 24th; eggs.
55	The brahmīn Kite	<i>Haliastur indus</i> ...	Ditto ...	On high trees near water.	Throughout the plains	Calcutta, 11th; Raipur (C. P.), 10th; eggs.
56	The common "	<i>Milvus govinda</i> ...	Ditto ...	In forks of trees ...	Throughout India ...	Allahabad, 20th; eggs; Nilgiris; young.
	The greater Indian "	" <i>major</i> ...	Ditto ...	Ditto ...	The western Himalayas.	A few stragglers breed.
60	The Indian screech Owl	<i>Strix indica</i> ...	None ...	In holes in trees or buildings.	Throughout the plains	Etawah (N. W. P.), 17th; eggs.
65	The mottled wood "	<i>Bulacca shensis</i> ...	Ditto ...	In holes or hollows on large trees.	Ditto ...	Etawah (N. W. P.), 27th; eggs.
69	The rock-horned "	<i>Ascalaphia bengalensis</i> ...	Ditto ...	On ledges of banks	Throughout India proper.	Saharampur (N. W. P.), 27th; eggs.
70	The dusky-horned "	" <i>coromanda</i> ...	A large plat-form.	In forks of large trees.	Throughout the plains	Meerut (N. W. P.), 12th; eggs.
72	The brown fish "	<i>Ketupa ceylonensis</i> ...	None ...	In clefts of rocks or large trees.	Throughout India ...	Saharampur (N. W. P.), 24th; eggs.
76	Pennant's scops " The spotted Owlet	<i>Ephialtes griseus</i> ... <i>Athene bruna</i> ...	Ditto ... Ditto ...	In holes in trees ... In holes in trees or buildings.	Central and upper India Throughout India ...	Hansi, 10th; eggs. Allahabad, 20th; eggs.
83	The Nilgiri house Swallow	<i>Hirundo domicola</i> ...	Semi-circular saucer.	In buildings or eaves.	Nilgiris, Ceylon, Tenna- serim.	Nest building begins.
84	The wire-tailed "	" <i>ruficeps</i> ...	Ditto ...	Under bridges or on rocks by water.	Throughout India ...	Etawah (N. W. P.), 25th; eggs.
86	The Indian cliff "	<i>Hirundo fluvicola</i> ...	Retort-shaped	On cliffs near water or buildings (gregarious).	Northern and central India.	First brood begins.

88	The dusky sand Martin	Cotyle subsocata	...	A loose cup.	In holes in river banks (gregarious.)	Northern India	Cawnpur, 13th; eggs.
89	The common sand "	" sinensis	...	Ditto	Ditto	Throughout India (rare in south).	Calcutta, 20th; young.
90	The dusky crag "	" concolor	...	A deep semi-circular cup.	Against buildings or rocks.	Throughout India (locally.)	Jhansi, 10th; ditto.
100	The common Indian Swift	Cypselus abyssinicus...	...	Semi-globular.	Against buildings (gregarious).	Ditto	Nest building begins.
108	The Nilgiri Nightjar	Caprimulgus kelaarti	None	...	On the ground often near bushes.	Southern, extending to central India.	Nilgiris, 24th; eggs.
136	The pied Kingfisher	Ceryle rudis	...	Ditto	In holes in river banks.	Throughout the plains.	Raipur (C. P.), 8th; eggs.
147	The northern rose-band Parquet	Palearnis sivalensis	...	Ditto	In holes in decayed trees.	Punjab and western Himalayas.	Dehra Doon, 20th; eggs.
148	The rose ringed "	" torquatus	...	Ditto	Ditto	Throughout the plains.	Agra, 5th; Saharunpore, 20th; eggs.
160	The yellow-fronted Woodpecker	Picus maharattensis	...	Ditto	In artificial holes in trees.	Ditto	Manbhum, 27th; eggs.
167	The southern gold-en-backed	Chrysocolaptes des-serii.	...	Ditto	Ditto	The hills of south India.	Nilgiris, 3rd; eggs.
197	The crimson-breasted Barbet	Xantholæma hæmacephala.	...	Ditto	Ditto	Throughout the plains	Raipur (C. P.); eggs.
222	The amethyst-rumped Honey-sucker	Leptocoma zeylanica	...	Pear-shaped, with side entrance.	Hanging from tips of branches.	Lower Bengal and peninsular India.	Raipur (C. P.), 19th; eggs.
234	The purple "	Arachnechthra asiatica	...	Ditto	Ditto	Throughout India proper.	Allahabad, 18th; eggs.
239	The Nilgiri Flower-pecker	Diceum concolor	...	Purse-shaped, with front entrance.	Hanging from twigs in thick foliage.	The Nilgiris	Ootacamund, 20th; eggs.
240	The thick-billed "	Piprisoma agile	...	Ditto	Hanging from thin branches.	Throughout India	Allahabad, 25th; eggs.
253	The velvet-fronted Nuthatch	Dendrophila frontalis	...	None	In holes in trees	The hilly regions of India.	Kotagiri, Nilgiris, 10th; eggs.
255	The Indian Hoopoe	Upupa nigripennis	...	Ditto	In holes in trees or buildings.	Throughout India	Sambhur, 22nd; eggs.
256	The Indian grey Shrike	Lanius lahtora	...	A thick massive cup.	In thorny bushes or small trees.	Throughout the dry plains.	Delhi, 19th; eggs.
292	The white-browed Fantail	Leucocerca aureola	...	A tiny cup.	In trees or horizontal branches.	Throughout continental India.	Nest building begins.
347	The brown water Ouzel	Hydrobata asiatica	...	A large ball of moss.	In clefts of rocks near water.	The Himalayas	Dehra Doon; eggs.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
389	The Nilgiri quaker Thrush	<i>Alcippe poiocephala</i> ...	A deep mass- ive cup.	In forks of bushes or saplings.	The hills of south India.	Kotagiri, Nilgiris; eggs.
401	The southern scimitar Babbler	<i>Ponatorhinus hors- fieldii</i> .	Large glo- bular domed.	On the ground in a bush or tussock.	Ditto ...	Ditto ditto.
423	The Nilgiri laughing Thrush	<i>Trochalopteron caechi- nans</i> .	A deep mass- ive cup.	In forks of bushes or saplings.	The Nilgiris ...	Ditto ditto.
438	The striated bush Babbler	<i>Chattarhoa caudata</i> ...	Cup-shaped	In low bushes or clumps of grass.	Throughout the plains	A few stragglers breed.
—	The southern red- whiskered Bulbul	<i>Otocompsa fuscicaudata</i>	A small neat cup.	In isolated bushes.	The hills of south India.	Kotagiri, Conoor; eggs.
462	The common Madras "	<i>Pycnonotus pusillus</i> ...	Ditto ...	In small trees or bushes.	Throughout the plains	Nilgiris; eggs.
469	The fairy Bluebird	<i>Irena puella</i> ...	A loose strag- gling cup.	In forks of small trees.	Southern India ...	Assamboo Hills, 2nd; eggs.
—	The streaked scrub Warbler	<i>Drymæca inquieta</i> ...	Large globu- lar domed.	In low thorny shrubs.	The trans-Indus hills...	Nowshera; eggs.
550	The " wren "	<i>Burnesia lepida</i> ...	Ditto ...	In clumps of grass on islands.	Northern India ...	Fatehgurh(N. W. P.), 24th; eggs.
631	The Indian white-eyed Tit	<i>Zosterops palpebrosus</i>	A tiny regu- lar cup.	Hung from twigs in trees or shrubs.	Throughout India ...	Kotagiri, Nilgiris; eggs.
645	The Indian grey "	<i>Parus cinereus</i> ...	Shallow pad	In holes in walls or trees.	In all wooded hills ...	Ootacamund, 17th; eggs.
657	The Raven	<i>Corvus corax</i> ...	A large com- pact cup.	In forks of solitary trees.	Western continental India.	Jhelum, Punjab, 19th; eggs.
660	The bow-billed Corby	" <i>culminatus</i> ...	Ditto ...	Ditto ...	Throughout the plains	Aliahabad, 18th; eggs.
686	The jungle Mynah	<i>Acridotheres fuscus</i> ...	None ...	In holes in trees or buildings.	In all wooded hills ...	The Nilgiris; eggs.
703	The pin-tailed Munia	<i>Munia malabarica</i> ...	A large dom- ed oval.	In small trees, shrubs, or caves...	Throughout India pro- per.	Aliahabad, 9th; eggs.
704	The Indian Amadavat	<i>Estrellda amandara</i> ...	Ditto ...	In low thick bushes	Locally throughout India	Raipur (C. P.), 25th; eggs.
706	The Indian house Sparrow	<i>Passer indicus</i> ...	A globular mass.	In and about houses	Throughout India ...	Aliahabad, 9th; eggs.
758	The rufous-tailed finch Lark	<i>Ammomanes phœniceura</i>	A slight cir- cular pad.	On the ground near clod or tussock ...	Throughout India, south of Agra.	The Deccan; eggs.

760	The black-bellied finch Lark	<i>Pyrrhuloxia grisea</i> ...	A tiny shallow pad.	Ditto	Throughout the plains.	Etawah (N. W. P.), 22nd ; eggs.
762	The eastern sand "	<i>Alaudala raytal</i> ...	Ditto	On the ground under tussocks or tamarisk.	Eastern continental India.	Cawnpur ; eggs.
768	The Malabar crested "	<i>Alauda malabarica</i> ...	A shallow saucer.	On the ground near tiny bushes or grass.	Southern India	Nest building begins.
775	The grey-fronted green Pigeon	<i>Osmotreron malabarica</i>	A small platform.	On outer boughs of trees.	The hills of south India.	Assamboo Hills, 24th ; eggs.
788	The Indian blue rock "	<i>Columba intermedia</i> ...	Ditto	On ledges of buildings chiefly.	Throughout India	A few stragglers breed.
793	Sykes' turtle Dove	<i>Turtur meena</i> ...	A tiny platform.	In low trees in thick foliage.	Peninsular and eastern India.	Breed quite irregularly.
794	The brown turtle "	" <i>cambaiensis</i> ...	Ditto	In low trees or bushes.	Throughout the plains.	Ditto.
796	The Indian ring "	" <i>risorius</i> ...	Ditto	Ditto	Ditto	Ditto.
797	The ruddy ring "	" <i>humilis</i> ...	Ditto	Ditto	Ditto (but local) ...	Ditto.
798	The emerald "	<i>Chalcophaps indicus</i> ...	A shallow saucer.	In thick trees or bushes.	In all densely wooded tracts.	Dehra Doon, 25th ; eggs.
813	The grey jungle Fowl	<i>Gallus sonneratii</i> ...	A few dry leaves.	On the ground in dense cover.	The hills of central and south India.	Malabar ; eggs.
814	The red spur "	<i>Gallopardix spadiceus</i>	Ditto	Ditto	Ditto	Kotagiri, Nilgiris ; eggs.
822	The grey Partridge	<i>Ortygornis ponicieriana</i>	Ditto	On the ground in bushes or grass	The open plains of India	Benur ; eggs.
828	The red-billed bush Quail	<i>Pedicularia erythrorhyncha</i> .	None	On the ground under shelter.	The Nilgiris	Kotagiri, Nilgiris ; eggs.
849	The ringed Plover	<i>Oegialites curonicens</i> ...	Ditto	On the ground by sandy rivers	Throughout India	Cawnpur ; eggs.
859	The stone "	<i>Edicnemus crepitans</i>	Ditto	On the ground near bushes or trees.	Throughout India (locally).	Etawah (N. W. P.) ; eggs.
1008	The Indian snake Bird	<i>Plotus melanogaster</i> ...	A rough platform.	On trees standing in water.	Throughout the plains.	South of Madras ; eggs.

MARCH.

THE birds of prey are still in full season, and though many of the larger kinds have ceased to lay their places are filled by others, especially among the owls. Most of the bee eaters, kingfishers, parrots, woodpeckers, barbets, nuthatches, larks, plovers, and terns are either laying or building, and several species of swifts, goatsuckers, shrikes, flycatchers, thrushes, babblers, bulbuls, chats, warblers, titlarks, jays, mynahs, and game birds are beginning to lay.

In the HIMALAYAS, the king vulture is still laying, also the bearded vulture (*Lammergeyer*), the black-capped falcon, and Bonelli's eagle. The crested serpent eagle, the long-legged buzzard and the greater Indian kite, and several of the owls are laying. The slaty-headed paroquet and the scaly-bellied green woodpecker have eggs. The white-tailed and velvet-fronted nuthatches, the hoopoe, the bronzed drongo, the ashy swallow shrike, the verditer flycatcher, the Nepal quaker thrush, the white-browed warbler, the white-eyed tit, the red-capped, crested black, and mountain tits, the nutcracker, magpie and jay, the large hill mynah, the tree sparrow, and the white-crested king pheasant all begin laying; and the *goshawk*, *Himalayan fishing eagle*, *collared pigmy owlet*, *common swallow*, *crag* and *Kashmir martins*, *Hodgson's trogon*, *roseband paroquet*, *woodpeckers*, *piculets*, *flower-peckers*, *tree-creepers*, *raquet-tailed drongos*, *chestnut-bellied chat thrush*, *white-collared ouzels*, *missel thrush*, *red-headed wren babbler*, *rufous-necked and rusty-cheeked scimitar babblers*, *black gorgetted laughing thrush*, *iron grey bushchat*, *blue-headed redstart*, *black-eared and grey-headed warblers*, *western spotted forktails*, *yellow-cheeked tits*, *blue magpies*, *green jays*, and *spotted-winged stares* are all pairing and building.

In the PUNJAB, the vultures, hawks, falcons, and true eagles are still laying, also the short-toed eagle. The buzzards and several owls commence laying. The dusky crag martin, the pied kingfisher, the grey shrike, the babblers, the streaked scrub warbler, the streaked wren warbler, the raven, the larks, doves, the common sandgrouse, the common quail, the big bustard, most of the plovers, the common heron, the king curlew, most of the terns, and the scissor bill have eggs during the month; and the *painted sandgrouse*, the *seesee partridge*, the *lesser button quail*, and the *gull-billed terns* are pairing and making their nests.

In the NORTH-WEST PROVINCES, the white scavenger vulture



MARSHALL DEL

NEST OF THE RED-HEADED TIT.

(Egithinus erythronotus)

and a few of the king vultures are the only vultures with eggs at this season. The laggar falcon, the red-headed merlins, the changeable hawk eagles, buzzards, kites, and most of the owls, are still laying. All the swallows and martins, the blue-tailed bee eater, the roller, the parrots, woodpeckers and barbets, the flower-peckers, honey suckers, nuthatches, robins, chats, titlarks, carrion crows, larks of all kinds, green pigeons, emerald doves, grey partridges, bush quail, common quail, most of the plovers, the river terns, and the scissor bills have all got eggs. The following birds not included in the list that follows begin building during the month, and should be watched:—The *shikra hawk*, the *jungle owlet*, the *blue-ruffed bee eater*, the *northern grey hornbill*, the *large grey cuckoo shrike*, *Sykes' warbler*, and the *common cormorant*.

IN BENGAL, the palm roof swift in the Garo hills lays throughout the month. The large Bengal nightjar, the white-breasted kingfisher, the red-breasted paroquet, the Indian loriquet, the yellow-fronted woodpecker, Franklin's green barbet, the koel, honey suckers, flower-peckers, the common wood shrike, the common babbler, the red-whiskered and white-winged green bulbul, the black-headed oriole, the black crow, Sykes' turtle dove, the red jungle fowl, the kyah partridge, plovers, river terns, and scissor bills all have eggs. The species that commence nest-building during the month are *Jerdon's green bulbul*, the *shama robin*, and the *white-backed munia*.

IN CENTRAL INDIA, the cliff swallows, crag martins, blue-tailed bee eater, little kingfisher, rock chat, rufous-tailed finch lark, painted spur fowl, and plovers are the characteristic species that lay during the month, but many of the species that breed at this time in northern, and particularly southern India, breed also now in central India. The species that begin building in this month are the *jungle nightjar* and the *purple heron*.

IN SOUTHERN INDIA, the kestrel is still laying, and probably some of the owls. The jungle nightjar, chestnut-headed bee eater, little kingfisher, lesser green woodpecker, the green barbet, the sirkeer, flower-pecker, some shrikes, flycatchers, thrushes, blackbirds, quaker thrushes, babblers, laughing thrushes, bulbuls, robins, chats, the ashy wren warbler, titlark, tits, long-tailed treepie, mynahs, larks, grey jungle fowl, red spur fowl, and red-winged bush quail are the kinds that breed throughout the month. The *white-bellied short wing* in the Pulneys, and the *green pigeons* and *Nilgiri wood pigeons* commence building their nests.

MARCH.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
2	The king Vulture	Otogyys calvus	A large plat- form.	On tops of high trees.	Throughout continent- al India.	Kangra, 2nd; Hansi, 6th 14th; eggs.
3	The roc	Gyps himalayensis	Ditto	On ledges of cliffs.	The Himalayas only...	Kangra, young; season ends.
5	The white-backed	" bengalensis	Ditto	Near tops of large trees.	Throughout continent- al India.	Salt range, 10th; eggs.
	The bay	" fulvescens	Ditto	Ditto	North-west and cen- tral India.	Lahore, 7th; eggs.
6	The white scavenger	Perenopteron ginginia- nus.	Platform	On cliffs or large trees.	Throughout India	Meerut, 24th; Salt range 21st; eggs.
7	The bearded	Gypaetus barbatus	A large plat- form.	On ledges of cliffs.	The Himalayas and Suleiman range.	Kangra, 14th; eggs; season ends.
	The black-capped Falcon	Falco atriceps	Ditto	Ditto	Ditto	Kangra, 10th; eggs; season ends.
11	The laggar	" juggur	Ditto	On high trees or cliffs.	The dry plains of upper India.	Mainpuri, 2nd; Kumaon, 25th; eggs.
16	The red-headed Merlin	Lithofalco chicquera	A compact massive cup- form.	In forks of trees	Throughout the plains	Allahabad, 27th; eggs.
17	The Kestrel	Tinnunculus alaudarius	A large plat- form.	On ledges of cliffs.	Himalayas, Nilgiris, and Suleiman range.	Nilgiris, 1st; eggs.
27	The imperial Eagle	Aquila mogilnik	Ditto	On tops of trees	The Punjab and west- ern Himalayas.	Upper Punjab; eggs.
29	The Indian tawny	" vindhya	Ditto	In high trees	The dry plains of up- per India.	Hansi; eggs.
33	Bonelli's	Nisactus bonellii	Ditto	On cliffs or high trees.	Throughout India	Kumaon; eggs.
36	The Nepal hawk	Spizaetus nipalensis	Ditto	On high trees	The Himalayas	Masuri, 5th, 18th; eggs.
	The changeable	" caligatus	Ditto	Ditto	Bengal and sub-Hima- layan forests.	Kumaon, Bhabur.
38	The short-toed	Circus gallies	Ditto	Usually on high trees.	The dry plains of up- per India.	Hansi, 6th, 26th; Saharun- pur, 13th; eggs.
39	The crested serpent	Spilornis cheela	Ditto	In thick forks of trees.	The sub-Himalayas	Masuri, 20th; eggs.

45	The long-legged Buzzard	<i>Buteo canescens</i>	Irregular platform.	On high trees or cliffs	The Punjab and western Himalayas.	Bussahir, 1st; Jhelum; eggs.
48	The white eyed "	<i>Poliornis teesa</i>	A small platform.	In forks of trees ...	The dry plains of continental India.	Etawah, 28th; eggs.
55	The brahminy Kite	<i>Haliastur indus</i>	Irregular platform.	On high trees near water.	Throughout the plains	Allahabad, 26th; eggs.
56	The common "	<i>Milvus govinda</i>	Ditto	In forks of trees ...	Throughout India ...	Meerut, 23rd; eggs.
	The greater Indian "	" major	Ditto	Ditto	The western Himalayas.	Kooloo, Kashmir.
60	The Indian screech "	<i>Strix indica</i>	None	In holes in trees or buildings.	Throughout the plains	Lucknow, Aylgarh, Jaipore; eggs.
65	The mottled wood "	<i>Bulacca sinensis</i>	Ditto	In holes or hollows on large trees.	Ditto	Hansi, 16th; Etawah, 3rd; eggs.
69	The rock horned "	<i>Ascalaphia bengalensis</i>	Ditto	On ledges of banks.	Throughout India ...	Saharunpur, 26th; young; 28th; eggs.
70	The dusky "	" coromanda	Ditto	On forks of large trees.	Throughout the plains	A few stragglers breed.
72	The brown fish "	<i>Ketupa ceylonensis</i>	Ditto	In clefts of rocks or large trees.	Throughout India ...	Saharunpur, 10th; eggs; season ends.
74	The Indian scops "	<i>Ephialtes pennatus</i>	Ditto	In holes in trees ...	In all well-wooded tracts.	The Doab; eggs.
	The barefoot "	" spilocephalus	Ditto	Ditto	The Himalayas	Masuri, 19th; eggs.
	Fennant's "	" griseus	Ditto	Ditto	Central and upper India	Etawah, 10th; Hansi, 25th; eggs.
76	The spotted Owllet	<i>Athene brama</i>	Ditto	In holes in trees or buildings.	Throughout India ...	Allahabad, 27th; eggs.
79	The large barred "	" euculoides	Ditto	In holes in trees ...	The Himalayas	Kangra, Kumon; eggs.
83	The Nilgiri house Swallow	<i>Hirundo domicola</i>	Semi-circular saucet.	In buildings or caves.	Nilgiris, Ceylon, Tenasserim.	Throughout the month.
84	The wire-tailed "	" ruficeps	Ditto	Under bridges or on rocks by water.	Locally throughout India.	Etawah, 8th; eggs.
85	The Indian cliff "	" fluvicola	Retort shaped.	On cliffs near water or buildings (gregarious).	Northern and central India.	Ajmir, Dehra Doon; eggs.
88	The dusky sand Martin	<i>Cotyle subocata</i>	A loose cup	In holes in river banks (gregarious)	Northern India ...	Etawah, 12th; eggs.
89	The common "	" sinensis	Ditto	Ditto do. ...	Throughout India (rare in south).	Cawnpur, 15th; eggs.
90	The dusky crag "	" concolor	Semi-circular cup.	Against buildings or rocks.	Locally throughout India.	Central Provinces; eggs.
100	The common Indian Swift	<i>Cypselus abyssinicus</i>	Semi-globular	Against buildings (gregarious).	Throughout India ...	Meerut, 14th; eggs.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
102	The palm Swift	Cypselus batasiensis	A tiny watch pocket.	On leaves of the toddy palm.	Locally throughout the plains.	Mirzapur, 18th ; eggs.
—	The palm roof "	" infumatus ...	Ditto ...	On huts thatched with palm leaves.	Garo and north Cachar Hills.	Asalu ; eggs.
—	Horsfield's Swiftlet	Collocalia linchi ...	A small cup.	In caves and on houses.	The Andamans and Nicobars.	Macpherson's Straits, 9th ; eggs.
103	The southern hill "	" unicolor ...	Small semi-circular saucer.	In caves or on rocks	The Nilgiris and Assamboo Hills.	Travancore. 20th ; eggs.
108	The Nilgiri Nightjar	Caprimulgus kelaarti	None ...	On the ground often near bushes.	Southern, extending to central India.	Kotagiri, Raipur.
109	The large Bengal "	" albonotatus ...	Ditto ...	Ditto ...	Wooded parts of upper India.	Manbhum, 28th ; eggs.
117	The common Bee eater	Merops viridis ...	Ditto ...	In deep holes in banks or plains.	Throughout India proper	Breeding season begins.
118	The blue tailed "	" philippensis ...	Ditto ...	In deep holes in banks.	Ditto ...	Hoshungabad, Oude ; eggs.
119	The chestnut-headed "	" quincticolor ...	Ditto ...	Ditto ...	In wooded hilly country.	Nilgiris ; eggs.
123	The common Roller	Coracias indica ...	Ditto ...	In holes in trees or buildings.	Throughout India proper.	Allahabad, 28th ; eggs.
129	The white-breasted Kingfisher	Halcyon smymensis ...	Ditto ...	In holes in river banks or wells.	Ditto ...	Mergui, 25th ; eggs.
134	The little Indian "	Alcedo bengalensis ...	Ditto ...	In holes in banks by rivers.	Ditto ...	Nilgiris, 25th ; Deccan, 15th ; eggs.
136	The pied "	Ceryle rudis ...	Ditto ...	Ditto ...	Throughout the plains	Jhelum, 20th ; eggs.
147	The northern roseband Paroquet	Palaeornis sivalensis ...	Ditto ...	In holes in decayed trees.	The Punjab and western Himalayas.	Delra Doon ; eggs.
148	The rose-ringed "	" torquatus ...	Ditto ...	Ditto ...	Throughout the plains	Allahabad, 25th ; eggs.
149	The rose-headed "	" purpureus ...	Ditto ...	Ditto ...	Continental India, west of Oude.	Saharunpur, 10th ; eggs.
150	The slaty-headed "	" schisticeps ...	Ditto ...	Ditto ...	The Himalayas	Kumaon ; eggs.
152	The red-breasted "	" javanicus ...	Ditto ...	Ditto ...	Sub-Himalayas, east of the Ganges.	Very little known.
153	The Indian Loricquet	Loriculus vernalis ...	Ditto ...	Ditto ...	North-eastern India ...	Ditto.

160	The yellow-fronted Woodpecker	<i>Picus malbrattensis</i> ...	None	...	In artificial holes in trees.	Throughout the plains	Manbhūm, 5th; Cawnpur, 27th; eggs.
164	The southern pigmy "	<i>Yungipicus hardwickii</i>	Ditto	...	Ditto	Ditto	Seetapur, Etawah; eggs.
170	The scaly-bellied green "	<i>Geomus squamatus</i> ...	Ditto	...	Ditto	The Himalayas	Breeding season begins.
171	The lesser Indian "	" <i>striolatus</i> ...	Ditto	...	Ditto	Throughout eastern and southern India.	Ditto
180	The common gold back "	<i>Brachypternus aurantius</i> .	Ditto	...	Ditto	Throughout the plains	Etawah, 11th, 23rd; eggs.
193	Franklin's green Barbet	<i>Megalama caniceps</i> ...	Ditto	...	Ditto	Continental India	Manbhūm, 15th; eggs.
194	The small green "	" <i>viridis</i> ...	Ditto	...	Ditto	Peninsular India	Nilgiris; eggs.
197	The crimson-breasted "	<i>Xantholama haemacephala</i> .	Ditto	...	Ditto	Throughout the plains	Throughout the month.
214	The Koel	<i>Eudynamis orientalis</i>	Habits parasitic.	...	Eggs laid in crows' nests	Ditto	Calcutta, 15th; eggs.
219	The southern Sirkeer	<i>Taccocua leschenaulti</i>	A large irregular cup.	...	In thick bush jungle.	The hills of south India.	Nilgiris; eggs.
232	The amethyst-rumped Honey-sucker	<i>Leptocoma zeylanica</i>	Pear-shaped, side entrance	...	Hanging from tips of branches.	Lower Bengal and peninsular India.	Manbhūm, 27th; eggs.
234	The purple "	<i>Arremonothra asiatica</i>	Ditto	...	Ditto	Throughout the plains	Saharunpur. Cawnpur. 31st; eggs.
238	Tickell's Flower-pecker	<i>Dicaeum minimum</i> ...	Ditto	...	Ditto	Bombay, central and N. E. India.	Manbhūm, 16th; eggs.
239	The Nilgiri "	" <i>concolor</i> ...	Purse-shaped, front entrance.	...	Hanging from twigs in thick foliage.	The Nilgiris	Ootacamund, 3rd; eggs.
240	The thick-billed "	<i>Piprisoma agile</i> ...	Ditto	...	Hanging from thin branches.	Throughout India	Benares, 6th, young; Manbhūm, 4th; eggs.
248	The white-tailed Nuthatch	<i>Sitta himalayensis</i> ...	A shallow pad	...	In hollows in trees	The Himalayas only	Kumaon; season begins.
250	The chestnut-bellied "	" <i>castaneiventris</i> ...	None	...	Ditto	Locally throughout the plains.	The Doab; do.
253	The velvet-fronted "	<i>Dendrophila frontalis</i>	Ditto	...	Ditto	The hilly regions of India.	The sub-Himalayas; do.
254	The Hoopoe	<i>Upupa epops</i> ...	Ditto	...	In holes in trees or buildings.	The western Himalayas.	Kashmir; do.
255	The Indian "	" <i>nigripennis</i> ...	Ditto	...	Ditto	Throughout India	Saharunpur, 9th; eggs.
256	The Indian grey Shrike	<i>Lanius lahtora</i> ...	A thick massive cup.	...	In small trees or thorny bushes.	Throughout the dry plains.	Hansi, 29th; Salt range, 16th; eggs.
257	The rufous-backed "	" <i>erythronotus</i> ...	Ditto	...	Ditto	Throughout India	Etawah, 18th; eggs.
	The pale "	" <i>caniceps</i> ...	Ditto	...	Ditto	The hilly regions of India.	Nilgiris; season begins.
265	The common wood "	<i>Tephrodornis pontice-triana</i> .	A neat shallow cup.	...	In horizontal forks of trees.	Throughout the plains	Manbhūm; Saharunpur. 20th; eggs.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding season.	Particulars for the Month.
267	The little pied Shrike	<i>Hemipus picatus</i> ..	A tiny shallow cup.	In horizontal forks of trees.	Southern India ..	Ootacamund, 8th ; eggs.
282	The bronzed drongo "	<i>Chaptalia cenea</i> ..	A broad saucer.	Ditto ..	In forests throughout India.	Nepal ; season begins.
287	The ashy swallow "	<i>Artamus fuscus</i> ..	Ditto ..	On horizontal boughs or clumps.	Locally throughout India.	Nepal ; do.
292	The white-browed Fantail	<i>Leucocerca aureola</i> ..	A tiny cup..	In trees on thin branches or clumps.	Throughout continental India.	Etawah, 29th ; eggs.
300	The black and orange Flycatcher	<i>Ochromela nigrorufa</i> ..	Large and globular.	Low down in bushes or clumps.	The Nilgiris only ..	Ootacamund ; eggs.
301	The verditer "	<i>Eumyias melanops</i> ..	A thick cup	In holes in banks often under bridges.	The Himalayas ..	Nest building begins.
302	The Nilgiri blue "	" <i>albicaudata</i> ..	Ditto ..	Ditto ..	The Nilgiris ..	Conoor, 13th ; eggs.
344	The Malabar whistling Thrush	<i>Myiophonus horsfieldii</i> ..	A massive saucer.	On ledges of rocks near water.	The hills of south India	Kotagiri, 22nd ; eggs.
347	The brown water Ouzel	<i>Hydrobata asiatica</i> ..	A large ball of moss.	In clefts of rocks near water.	The Himalayas only ..	Kangra, 12th, 20th ; eggs.
360	The Nilgiri Blackbird	<i>Merula simillima</i> ..	A massive cup.	In forks of trees or saplings.	The Nilgiris ..	Conoor, 25th ; eggs.
388	The Nepal quaker Thrush	<i>Alcippe nipalensis</i> ..	A deep massive cup.	In low thick bushes	The eastern Himalayas	Nepal ; season begins.
389	The Nilgiri "	" <i>poiocephala</i> ..	Ditto ..	In thick bushes or saplings.	The hills of south India.	Nilgiris, 28th ; eggs.
399	The spotted wren Babbler	<i>Pellorneum ruficeps</i> ..	A loose domed cup.	On the ground against a bush.	Southern India ..	Kotagiri ; eggs.
404	The southern scimitar "	<i>Pomatorhinus horsfieldii</i> ..	Large globular domed.	On the ground in bush or tussock.	The hills of south India.	Ditto ; do.
423	The Nilgiri laughing Thrush	<i>Trochalopteron caechinaus</i> ..	A deep massive cup.	In forks of small trees or bushes.	The Nilgiris ..	Ditto ; do.
432	The Bengal Babbler	<i>Malaccocercus canorus</i> ..	A loose straggling cup.	In thick bushes or small trees.	The plains of continental India.	Nest building begins.
436	The large grey "	" <i>malcolmi</i> ..	Cup-shaped	In thorny trees or bushes.	Throughout the plains	Kotagiri, Cawnpur, 20th ; eggs.
438	The striated bush "	<i>Chatterhoca caudata</i> ..	Ditto ..	In low bushes or clumps.	Ditto	A few stragglers breed.

439	The striated reed Babbler	<i>Chattarhoa earlii</i> ...	A neat compact cap.	In reeds or clumps of grass.	Locally in continental India.	Saharunpur, 24th; Delhi, 28th; eggs.
445	The Nilgiri black Bulbul	<i>Hypsepetes nilgiriensis</i> ...	A rough shal-low cup.	In dense bushes or parasites on trees.	The Nilgiris	Conoor, 14th; eggs.
450	The yellow-browed bush "	<i>Criniger ictericus</i> ...	A small shal-low cup.	Suspended from forks in thick foliage.	The hills of south India	Conoor, 20th; eggs.
460	The red-whiskered "	<i>Otocompsa enneria</i> ...	Ditto	In thick bushes or creepers.	The moist parts of upper India.	Oude and Bengal; eggs.
	The southern "	" <i>fuscicaudata</i> ...	A small neat cup.	In isolated bushes	The hills of south India	Conoor, 13th; eggs.
462	The common Madras "	<i>Pycnonotus pusillus</i> ...	Ditto	In small trees or bushes.	Throughout the plains	The Nilgiris; eggs.
468	The white-winged green "	<i>Iora tephia</i> ...	A tiny cup...	In trees near tips of boughs.	Plains of upper India	Calcutta, 31st; eggs.
472	The black-headed Oriole	<i>Oriolus melanocephalus</i> ...	A neat deep cup.	In high trees hung from outer forks.	Eastern continental India.	Calcutta (doubtful).
475	The magpie Robin	<i>Copsychus saularis</i> ...	A shallow saucer.	In holes in trees or walls.	Throughout India	The Wynaad, 29th; eggs.
479	The southern brown-backed "	<i>Thamnobia fulicata</i> ...	A small cup	In holes in buildings or on the ground sheltered.	Southern India	Poona, 29th; December, 27th; eggs.
480	The brown-backed "	" <i>cambaiensis</i> ...	Ditto	Ditto	Northern India	Cawnpur, 31st; Saharunpur, 26th; eggs.
481	The black bush Chat	<i>Pratincola caprata</i> ...	A shallow pad	On the ground under shelter.	The Himalayas and upper India.	Saharunpur, 27th; eggs.
482	The southern black "	" <i>atrata</i> ...	Ditto	In holes in banks or walls.	The hills of south India	Conoor, 25th; Kotagiri; eggs.
483	The common Indian "	" <i>indica</i> ...	A small cup	Ditto	The Himalayas and N. W. Punjab.	Kumaon; eggs.
494	The brown rock "	<i>Cercomela fusca</i> ...	A shallow pad	Ditto	The dry parts of continental India.	Etawah, 23rd; Ajmir, 29th; eggs.
507	The blue wood "	<i>Larvivora cyana</i> ...	Ditto	In holes in decayed trees.	The Himalayas and Nilgiris.	Ootacamund, 15th; eggs.
	The streaked scrub Warbler	<i>Drymæa inquieta</i> ...	Large globular domed.	In low thorny shrubs	The trans-Indus hills	Nowshera, 16th; eggs
534	The ashy wren "	<i>Prinia socialis</i> ...	A cup sewn in leaves.	Hanging in low bushes.	Southern India	Ootacamund; eggs.
539	The rufous grass "	<i>Cisticola schenicola</i> ...	A deep narrow purse.	Low down in tufts of grass.	Throughout the plains	Delhi; eggs.
550	The streaked wren "	<i>Burnesia lepidia</i> ...	Large globular domed.	In clumps of grass on tamarisk islands	Northern India	Fatehgarh, 13th; Delhi, 28th; eggs.

Nos in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
573	The white-browed Warbler	Abornis albosuperciliaris.	Globular domed.	On the ground in mossy banks.	The Himalayas ...	Kangra, Kumaon; eggs.
589	The Indian pied Wagtail	Motacilla maderas patana.	A shallow pad	On the ground or buildings near water.	Throughout the plains	Etawah, 14th; eggs.
600	The Indian Tit-lark	Corydalla rufula ...	A shallow saucer.	On the ground by clod or tussock.	Throughout India ...	Saharunpur, 24th; eggs.
603	The Nilgiri "	Agrodromia cinnamomea	Ditto ...	Ditto ...	The Nilgiris ...	Segoor pass; eggs.
631	The Indian white-eyed Tit	Zosterops palpebrosus	A tiny regular cup.	Hung from twigs in trees or bushes.	Throughout India ...	Kumaon, Nilgiris. eggs.
634	The red-capped "	Egithaliscus erythrocephalus.	Ovoidal domed.	Wedge in forks of stunted trees	The Himalayas ...	Bhootan; eggs.
638	The crested black "	Lophophanes melanoleplus.	A shallow pad	In holes in walls or trees.	Ditto ...	Kumaon, Sikkim; eggs.
644	The mountain "	Parus monticolus ...	A rough mass of feathers.	Ditto ...	Ditto ...	Ditto.
645	The Indian grey "	" cinereus ...	A shallow pad	Ditto ...	In all wooded hilly regions.	The Nilgiris; eggs.
657	The Raven	Corvus corax ...	A large compact cup.	In forks of solitary trees.	Western continental India.	Season nearly over.
660	The bow-billed Corby	" culminatus ...	Ditto ...	Ditto ...	Throughout the plains	Etawah, 14th; Tanaseerin. 21st; eggs.
666	The Himalayan Nutcracker	Nucifraga hemispila ...	Ditto ...	High up in pine trees	The western Himalayas	Season ends.
668	The Himalayan Magpie	Pica bottanensis ...	Ditto (domed)	In high trees ...	The eastern Himalayas	Ditto.
669	The Himalayan Jay	Garrulus bispecularis ...	A neat compact cup.	In thick forks of large trees.	The Himalayas ...	Nepal; eggs.
678	The long-tailed Treepie	Dendrocitta leucogastra	A loose cup	On small trees or saplings.	The forests of south India.	Assambo hills, 9th; eggs.
686	The jungle Mynah	Acridotheres fuscus ...	None ...	In holes in trees or buildings.	In all wooded hills ...	The Nilgiris; eggs.
692	The southern hill "	Eulabes religiosa ...	Ditto ...	In holes in trees ...	Southern India ...	Travancore, 23rd; eggs.
693	The large hill "	" intermedia ...	Ditto ...	Ditto ...	The eastern sub-Himalayas.	Nepal and Kumaon Bhabur
703	The pin-tailed Munia	Munia malabarica ..	A large dome oval.	In thick bushes, small trees, or caves.	Throughout India proper.	Etawah; eggs.

706	The Indian house Sparrow	Passer indicus	...	A globular mass.	In or about houses	Throughout India	Throughout the month.
710	The tree "	" montanus	...	Ditto	In holes in trees or buildings.	The eastern Himalayas	Sikkim ; eggs.
756	The red-winged bush Lark	Mirafra erythroptera	...	A shallow pad	On the ground near tussock.	The dry plains of continental India.	The Doab ; eggs.
757	The singing "	" cantillans	...	A pad (sometimes domed)	Ditto	Ditto (but local)	Hansi, 28th ; eggs.
758	The rufous-tailed finch "	Ammomanes phoenicea	...	A slight circular pad.	On the ground by clod or tussock.	Throughout India, south of Agra.	Raipur (C. P.) ; eggs.
760	The black-bellied "	Pyrrhuloxia grisea	...	A tiny shallow pad.	Ditto	Throughout the plains	Etawah, 11th, 21st ; eggs.
762	The eastern sand "	Alandala raytal	...	A tiny saucer	On the ground near grass or tiny bush.	Eastern continental India.	Cawnpur ; eggs.
	The Punjab "	" adamsi	...	Ditto	Ditto	Western continental India.	Jhelum, 20th ; eggs.
767	The Indian sky "	Alanda gulgula	...	Ditto	Ditto	Plains of continental India.	Throughout the month.
768	The Nilgiri "	" australis	...	Ditto	Ditto	The hills of south India	Nilgiris ; season begins.
769	The Malabar crested "	" malabarica	...	Ditto	Ditto	Southern India	Ditto ; ditto.
	The common "	Galerita cristata	...	Ditto	Ditto	The dry plains of continental India.	Salt range, 25th ; eggs.
773	The lesser "	" boysii	...	Ditto	Ditto	Ditto	Saharunpur, 20th ; eggs.
	The southern green Pigeon	Crocopus chlorigastrea	...	A small platform.	In small trees or bushes.	Throughout the plains (except Bengal).	Etawah, 23rd ; Bolan, 27th ; eggs.
788	The Indian blue rock "	Columba intermedia	...	Ditto	On ledges of buildings chiefly.	Throughout India	Throughout the month.
793	Sykes's turtle Dove	Turtur meena	...	A tiny platform.	In low trees in thick foliage.	Peninsular and eastern India.	Hill Tipperah, 26th ; eggs.
794	The brown "	" cambaiensis	...	Ditto	In low trees or bushes.	Throughout the plains	Throughout the month.
795	The spotted "	" suratensis	...	Ditto	Ditto	In all wooded parts	Ditto.
796	The Indian ring "	" risorius	...	Ditto	Ditto	Throughout India proper.	Ditto.
797	The ruddy "	" humilis	...	Ditto	Ditto	Ditto (but local)	Ditto.
798	The emerald "	Chalcophaps indicus	...	A shallow saucer.	In low thick trees or bushes.	In all densely wooded tracts.	Dehra Doon ; eggs.
802	The common Sandprouse	Pterocles exustus	...	None	On the bare ground	The dry plains of continental India.	Sirsa, 1st, 21st ; Fatehgarh, 2nd ; eggs.
810	The white-crested kalij Pheasant	Gallophaps albocristatus	...	A shallow pad	On the ground in dense cover.	The Himalayas	Dehra Doon, 28th ; eggs.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
812	The red jungle Fowl	<i>Gallus ferrugineus</i> ...	A few dry leaves.	On the ground in dense cover.	The sub-Himalayas, Madras, and C. P.	Pegu, 20th; eggs.
813	The grey " "	" <i>sonneratii</i> ...	Ditto ...	Ditto ...	The hills of central and south India.	Kotagiri; eggs.
814	The red spur " "	<i>Galloperox spadicus</i> ...	Ditto ...	Ditto ...	South India extending to Bundelkund	Nilgiris; eggs.
815	The painted " "	" <i>lunulosus</i> ...	Ditto ...	Ditto ...	The eastern peninsula to Central Provinces.	Raipur (C. P.); eggs.
822	The grey Partridge	<i>Oryzornis ponticeriana</i> ...	Ditto ...	On the ground in bushes or grass.	The open plains of India proper.	Saharunpur; eggs.
823	The kyah " "	" <i>gularis</i> ...	Ditto ...	Ditto ...	The sub-Himalayan Terai	Breeding season begins.
826	The jungle bush Quail	<i>Pedicular cambaiensis</i> ...	Ditto ...	On the ground in long grass.	Throughout India locally	Throughout the month.
827	The rock " "	" <i>asiatica</i> ...	Ditto ...	Ditto ...	Ditto	Etawah; eggs.
828	The red-billed " "	" <i>erythrorhyncha</i> ...	Ditto ...	On the ground under shelter.	The Nilgiris	Kotagiri; eggs.
829	The common " "	<i>Coturnix communis</i> ...	Ditto ...	Ditto ...	Northern India	Hansi, 25th; Allahabad, 25th; eggs.
836	The Indian Bustard	<i>Eupodotis edwardsii</i> ...	None ...	On the ground in scanty grass jungle	The dry parts of central India.	Sirsa, 12th, 20th; eggs.
840	The Indian courier Plover	<i>Cursorius coromandelicus</i> ...	Ditto ...	On the ground in waste or fallow land.	In all dry plains, except Punjab.	Oude, Etawah; eggs.
	The cream-colored " "	" <i>gallicus</i> ...	Ditto ...	Ditto ...	The Punjab	Sirsa, 14th; eggs.
843	The lesser swallow " "	<i>Glareola lactea</i> ...	Ditto ...	On sandy banks and islands (gregarious).	Continental India	Etawah, 12th; Cawnpur, 23rd; eggs.
849	The ringed " "	<i>Ægialites euronicus</i> ...	Ditto ...	On the sand in river beds.	Throughout India	Manbhum; Sumbulpur; eggs.
855	The red-wattled " "	<i>Lobivanellus goensis</i> ...	Ditto ...	On the ground on raised spots.	Ditto	Etawah, 13th; Sambhur, 25th; eggs.
856	The yellow-wattled " "	<i>Sarcophorus bilobus</i> ...	Ditto ...	On the ground in waste or fallow land.	In dry plains throughout India.	Breeding season begins.
857	The spur-winged " "	<i>Hoplopterus malabaricus</i> ...	Ditto ...	On the sand in river beds.	Throughout India	Cawnpur, 12th, 30th; Oude, 8th; eggs.

858	The great Indian stone Plover	<i>Esacus recurvirostris</i> ...	None	...	On the sand in river beds.	Throughout India	...	Etawah, 12th; Cawnpur, 23rd; eggs.
859	The stone "	<i>Œdicnemus crepitans</i>	Ditto	...	On the ground near bushes or trees.	Ditto (but locally)	...	Cawnpur, 18th; eggs.
923	The common Heron	<i>Ardea cinerea</i>	A loose platform.	...	On large trees (gregarious.)	Ditto (do)	...	Oude, Hansi, 26th; eggs.
942	The king Curlew	<i>Geronticus papillosus</i>	Ditto	...	High up in large trees.	Throughout the plains	...	Delhi, 28th; eggs.
985	The large river Tern	<i>Sterna sena</i>	None	...	On the sand in river beds (gregarious).	Throughout India proper.	...	Etawah, 13th; Cawnpur, 23rd; Calcutta, 26th; eggs.
987	The black-bellied "	" <i>javanica</i>	Ditto	...	Ditto (do.)	Ditto	...	Etawah, 13th; Jhelum, 15th; the Deccan and Calcutta; eggs.
988	The little "	<i>Sternula minuta</i>	Ditto	...	Ditto (do.)	Ditto	...	Benares, 30th; eggs.
995	The Scissor-bill	<i>Rhynchops albigollis</i> ...	Ditto	...	Ditto (do.)	Ditto	...	Etawah, 15th; Cawnpur, 27th; Calcutta, 26th; eggs.

APRIL.

BREEDING has by this time become more general everywhere. The kites and buzzards, the shrikes, tit larks, sparrows, doves, the common sandgrouse, jungle fowl, spur fowl, plovers, and river terns have eggs in all parts of the country. The common heron has eggs here and there in northern, western, and central India.

In the HIMALAYAS, most of the hawks, hawk eagles, serpent eagles, the barefoot scops owl, the owlets, martins, large Bengal nightjars, trogons, most of the woodpeckers and piculets, all the barbets, (except the Marshall's barbet,) honey-suckers, treecreeper, nuthatches, hoopoe, cuckoo shrike, large minivet, some of the drongos, swallow shrikes, most of the flycatchers, shortwings, thrushes, ouzels, a few laughing thrushes, bushchats, most of the tree warblers, all the pipits, most of the true tits, crows, jackdaws, jays, the spotted winged stare, crested bunting, white-crested kalij pheasant, the chukor, and the night heron have eggs throughout the month, while the *sparrow hawk*, *wood owl*, the rest of the *scops owls*, the *Sikkim frogmouth*, *Unwin's nightjar*, the *European bee eater*, *black cap shrike*, *pieb shrike*, *short-billed minivet*, *drongos*, *yellow-bellied fantail*, *red-breasts*, *ground thrushes*, *blackbirds*, *black-headed wren warbler*, most of the *laughing thrushes*, a few *bulbuls*, the *redstarts*, most of the remaining *warblers*, the *forktails*, *wagtails* and *pipits*, nearly all the *hill tits*, the *rufous-breasted accentor*, the *corby*, the *yellow-billed blue magpie*, the *grey-headed mynah*, the *sparrows*, *meadow bunting*, *skylark*, *imperial pigeons*, *turtle doves*, all the rest of the *pheasants*, the *snow partridge*, *bustard quail*, *woodcock*, *sandpipers*, *water hens*, *geese*, *ducks*, and *grebe* are pairing and commence building their nests towards the end of the month.

In the PUNJAB, the king vulture, the white scavenger vulture, the red-headed merlin, and Indian tawny eagle are still laying. The screech owl and scops owl, and little owl have eggs, so also have the striated reed babblers, the rock chats, scrub warblers, treepies, the bright starlings, singing bush larks, sandlarks, crested larks, green pigeons, the seese partridges, the common quail, button quail, big bustard, plovers, king curlew, and river terns, as well as many other



MARSHALL DEL.

BREEDING PLACE OF THE TERNS.

birds which have been found breeding in the North-West Provinces and central India. The *Egyptian bee eaters* and *desert finch larks* commence nest building towards the end of the month.

In the NORTH-WEST PROVINCES, the shikra, the short-toed serpent eagle, buzzards, kites, and most of the owls have still got eggs. The wire-tailed and mosque swallows, the sand martins, common swifts, blue-tailed bee eaters, the kingfishers, hornbill, green barbets, cuckoo shrikes, fantails, grey babblers, bulbuls, ioras, robins, chats, Sykes's warbler, pied wagtails, treepies, bush larks, sand larks, finch larks, rock pigeons, jungle fowl, plovers, and the common cormorant are laying during this month: while the *common drongo* and the *brahminy mynah* are beginning to pair and build, also a few pairs of the *concal* and *sirkeer* build in the eastern parts.

In BENGAL, the spotted eagle is laying. The large Bengal nightjar, the stork-billed kingfisher, the koel, the common wood shrike, the black-headed wren babbler, the red-whiskered bulbul, the common bulbul, Jerdon's green bulbul, the black-headed oriole, the shama, the tailor bird, the white-backed munia, the orange-breasted green pigeon, Sykes's turtle dove, the red jungle fowl, the kyah partridge, the common quail, and the painted snipe, all have eggs during the month, besides many others common to it and central and western India. The *long-legged and spotted eagles*, the *yellow-breasted and red-capped wren warblers*, and the *green pigeons* are beginning to pair and build.

In CENTRAL INDIA, the spotted eagle, buzzards, and kites are laying. The cliff swallow and crested swift have eggs. The jungle and Nilgiri nightjars have begun to lay, and the blue-tailed bee eaters, white-breasted kingfishers, rockhats, finch larks, painted sand-grouse, jungle fowl, spur fowl, plovers, purple herons, as well as the common herons, are sitting. The *lesser harrier eagle*, *Tickell's blue redbreast*, the *striated marsh babbler*, the *green amadavat*, and the *brown rail* begin to build towards the end of the month.

In SOUTHERN INDIA, the white scavenger vulture is still laying. The house and mosque swallows, dusky crag martins, Nilgiri nightjars, chestnut-headed bee eaters, little kingfishers, green barbets, Tickell's flower-pecker, the velvet-fronted nuthatch, white-spotted fantail, the flycatchers, shortwings, whistling thrushes, blackbirds, quaker thrushes, wren babblers, scimitar babblers, bulbuls, robins, chats, wren warblers, pipits, white-eyed tits, tit larks, treepies,

jungle mynahs, hill mynahs, weaver birds, munias, larks, green pigeons, wood pigeons, jungle fowl, spur fowl, plovers, and many other kinds have eggs. The *lesser kestrel* in the Nilgiris, the *ghat nightjar*, the *southern blue redbreast*, the *jungle babbler*, and the *common crow* are pairing and building by the end of the month.

No. in Jordan.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
2	The king Vulture	Otogyys calvus ...	A large plat- form.	On tops of high trees.	Throughout continental India.	Hansi, 13th; eggs.
6	The white scavenger "	Perenopterogingianus.	Platform ...	On cliffs or large trees.	Throughout India ...	Hansi, 3rd, 30th; Nilgiris, 7th, 15th; eggs.
16	The red-headed Merlin	Lithofalco chicquera ...	A compact massive cup.	In forks of trees ...	Throughout the plains	Hansi, 5th, 28th; eggs.
17	The Kestrel	Timunculus alaudarius.	A large plat- form.	On ledges of cliffs	Himalayas, Nilgiris, and Suleiman range.	Kashmir, 28th; eggs.
21	The Goshawk	Astur palumbarius ...	Ditto ...	Usually in pine trees high up.	The Himalayas only ...	Bussahir, 15th; eggs.
23	The Shikra	Micronisus badius ...	A loose cup	High up in lofty trees.	Throughout India ...	The Doab; eggs.
	The dove Hawk	Accipiter melaschistus	A small plat- form.	On ledges of cliffs	The Himalayas only ...	Kotagurh, 28th; eggs.
27	The imperial Eagle	Aquila mogilnik ...	A large plat- form.	On tops of trees ...	The Punjab and west- ern Himalayas.	A few stragglers breed.
28	The spotted "	" neevia ...	Ditto ...	In high trees ...	Central and northern India.	Rajpur (C. P.) and Sikkim Terai.
29	The Indian tawny "	" vindhiana ...	Ditto ...	Ditto	The dry plains of upper India.	Hansi; eggs.
30	The long-legged "	" hastata ...	Ditto ...	Ditto	Central and northern India.	Hazara, 29th; eggs.
33	Bonelli's "	Nisactus bonellii ...	Ditto ...	On cliffs or high trees.	Throughout India ...	Himalayas; eggs.
36	The Nepal hawk "	Spizaetus nipalensis ...	Ditto ...	On high trees ...	The Himalayas only ...	Masuri, 10th; young; Ha- zara, 15th; eggs.
	The changeable hawk "	" caligatus ...	Ditto ...	Ditto	Bengal and the sub- Himalayas.	Kumaon, Bhabur.
38	The short-toed "	Circetus gallicus ...	Ditto ...	Usually on high trees.	The dry plains of upper India.	Saharunpur, 6th; eggs.
39	The crested serpent "	Spilornis cheela ...	Ditto ...	In thick forks of trees.	The sub-Himalayan valleys.	Kangra, 5th, 11th, 25th; eggs.
	The Himalayan fishing "	Pollioactus plumbeus ...	Ditto ...	On high trees ...	The Himalayas ...	Kumaon; eggs.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month
45	The long-legged Buzzard	<i>Buteo canescens</i> ...	Irregular platform.	On high trees or cliffs.	The Punjab and western Himalayas.	Kashmir; eggs.
48	The white-eyed "	<i>Poliornis teesa</i> ...	A small platform.	In forks of trees ...	The dry plains of continental India.	Throughout the month.
55	The brahminy Kite	<i>Haliastur indus</i> ...	Triangular platform.	On high trees near water.	Throughout the plains	Saharumpur, 6th; Raipur; eggs.
56	The common "	<i>Milvus gorinda</i> ...	Ditto ...	In forks of trees ...	Throughout India ...	Saharumpur, 10th; Saharumpur; eggs.
	The greater Indian "	" major ...	Ditto ...	Ditto ...	The western Himalayas	Kashmir; eggs.
57	The crested honey Buzzard	<i>Pernis cristata</i> ...	Ditto ...	Ditto ...	Locally throughout India proper.	Oude; eggs.
59	The black-winged Kite	<i>Elaanus melanopterus</i> ...	A shallow compact cup.	Ditto ...	Ditto ...	Dehra Doon, Rohilkhand; eggs.
60	The Indian screech Owl	<i>Strix indica</i> ...	None.	In holes in trees or buildings.	Throughout the plains	Upper India; eggs.
65	The mottled wood "	<i>Bulacca sinensis</i> ...	Ditto ...	In holes or hollows of large trees.	Ditto ...	Dehra Doon; eggs.
69	The rock-horned "	<i>Ascalaphia bengalensis</i> ...	Ditto ...	On ledges of banks	Throughout India proper.	Saharumpur, 3rd, 16th; eggs.
70	The dusky-horned "	" coromanda ...	Ditto ...	In forks of large trees.	Throughout the plains	Saharumpur, 18th; eggs; season ends.
74	The Indian scops "	<i>Ephialtes pennatus</i> ...	Ditto ...	In holes in trees ...	Locally throughout India.	Dehra Doon; eggs.
	The barefoot "	" spilocephalus ...	Ditto ...	Ditto ...	In continental India ...	Kotegurh, 30th; Masuri; eggs.
	Pennant's "	" griseus ...	Ditto	Ditto	Central and northern India.	Hansi, 2nd; eggs.
76	The spotted Owllet	<i>Athene brama</i> ...	Ditto ...	In holes in trees or buildings	Throughout India ...	Hansi, 20th; Saharumpur, 10th; eggs.
77	The jungle "	" radiata ...	Ditto ...	In holes in trees ...	In all wooded tracts ...	Bijnor, Allahabad. 26th; eggs.
79	The large-barred "	" cuculoides ...	Ditto ...	Ditto	The Himalayas ...	Kangra, 27th; Masuri; eggs.
80	The collared pigmy "	<i>Glaucidium brodiei</i> ...	Ditto ...	Ditto	The Himalayas and Khasia Hills.	Masuri, Kumaon; eggs.

82	The common Swallow	Hirundo rustica	...	Deep semi-circular cup.	In and about houses.	The Himalayas	...	Kangra, Kumaon, Naga Hills.
83	The Nilgiri house	"	domicola	Semi-circular saucer.	In buildings or caves.	The Nilgiris, Ceylon, Tenasserim.	Conoor, Kotagiri, Tenasserim	The Doab; eggs.
84	The wire-tailed	"	rupeiceps	Ditto	Under bridges or rocks by water.	Locally throughout India.	Delhra Doon, 30th; eggs.	Kotagiri, 9th; eggs.
85	The great Indian mosque	"	daurica	Tubular, re-tort-shaped.	In caves or buildings.	The Himalayas	...	Jodhpur, 4th; Jhansi; eggs.
	The "	"	erythropygia	Ditto	Ditto	Throughout India proper.	...	Oudh. 10th, 23rd; Sambhur, 15th; eggs.
86	The Indian cliff	"	fluvicola	Retort-shaped	On cliffs near water or buildings (gregarious).	Continental India	...	Nilgiris; eggs.
89	The common sand Martin	Cotyle sinensis	...	A loose cup	In holes in river banks (gregarious).	Throughout India (rare in south.)	...	Chakrata; eggs.
90	The dusky crag	"	concolor	Semi-circular cup.	Against buildings or rocks.	Locally throughout India.	...	Simla; eggs.
91	The "	"	rupestris	Ditto	Against rocks or caves.	The Himalayas	...	The Doab; eggs.
93	The Kashmir	Chelidon cashmirensis	...	Ditto	Ditto	Ditto	...	First brood ends.
100	The common Indian Swift	Cypselus abyssinicus	...	Semi-globular.	Against buildings (gregarious).	Throughout India	...	Asaloo; eggs.
102	The palm	"	batassiensis	A tiny watch pocket.	On leaves of the toddy palm.	Locally throughout the plains.	...	Nest building begins.
	The palm-roof	"	infumatus...	Ditto	In huts thatched with palm leaves.	Garro and north Cachar hills.	...	Mandla (C. P.), 6th; eggs.
103	The southern hill Swiftlet	Collocalia unicolor	...	Small semi-circular saucer.	In caves or on rocks.	The Nilgiris and As-sambo hills.	...	Raipur (C. P.); eggs.
104	The Indian crested Swift	Dendrochelidon coronatus.	...	A tiny half saucer.	On dead boughs of high trees.	The forests of India proper.	...	Raipur, Nilgiris; eggs.
107	The Indian Nightjar	Caprimulgus indicus	...	None	On the ground often near a bush.	The forests of continental India.	...	Masuri, 19th; Manbhum, 5th; eggs.
108	The Nilgiri	"	kelaarti	Ditto	Ditto	Southern extending to central India.	...	Season begins.
109	The large Bengal	"	albonotatus	Ditto	Ditto	The wooded parts of upper India.	...	Ditto.
112	The common Indian	"	asiaticus	Ditto	Ditto	The plains of continental India.	...	
114	Franklin's	"	monticolus	Ditto	Ditto	In wooded hills throughout India.	...	

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
116	Hodgson's Trogon	<i>Harpactes hodgsoni</i> ...	None	In holes in decayed trees.	The eastern sub-Himalayas.	Sikkim, Nepal; eggs.
117	The common Bee eater	<i>Merops viridis</i> ...	Ditto	In deep holes in banks or plains.	Throughout India per.	Throughout the month.
118	The blue-tailed "	" <i>philippensis</i> ...	Ditto	In deep holes in banks.	Ditto	Hoshungabad, 1st; Oude; eggs.
119	The chestnut-headed "	" <i>quinticolor</i> ...	Ditto	Ditto	In all wooded hills	Nilgiris, Dehra Doon.
122	The blue-ruffed "	<i>Nyctinomus atheroni</i> ...	Ditto	Ditto*	Sub-Himalayas, east of Jumna.	(Requires confirmation.)
123	The common Roller	<i>Coracias indica</i> ...	Ditto	In holes in trees or buildings.	Throughout India per.	Oude, 19th; Sambhur, 26th; eggs.
126	The broad-billed "	<i>Eurystomus orientalis</i> ...	Ditto	In holes in lofty trees.	Sub-Himalayas, east of Ganges.	(Requires confirmation.)
127	The Indian stork-billed Kingfisher	<i>Pelargopsis gurial</i> ...	Ditto	In holes in banks by running water.	Eastern sub-Himalayas and Bengal.	Calcutta, 25th; eggs.
129	The white-breasted "	<i>Halcyon smyrnensis</i> ...	Ditto	In holes in river banks or wells.	Throughout India per.	Saharunpur, 25th; Sambhur, 15th; eggs.
134	The little Indian "	<i>Alcedo bengalensis</i> ...	Ditto	In holes in banks often by rivers.	Ditto	Allahabad, 10th; Nilgiris, 2nd; eggs.
136	The pied "	<i>Ceryle rudis</i> ...	Ditto	In holes in river banks.	Throughout the plains	Saharunpur, 10th; eggs; season ends.
138	The yellow-throated Broadbill	<i>Psarisomus dalhousiae</i> ...	Large, rough, pear-shaped.	Pendent from lofty trees.	The eastern Himalayas	Very little known.
140	The great Indian Hornbill	<i>Bucconius bicornis</i> ...	None	In holes in lofty decayed trees.	The eastern sub-Himalayas.	Ditto.
144	The northern grey "	<i>Meniceros bicornis</i> ...	Ditto	In holes in decayed trees.	Throughout the plains	Mynpuri (N. W. P.), 15th; eggs.
147	The northern roseband Paroquet	<i>Palaeornis sivalensis</i> ...	Ditto	Ditto	Punjab and western Himalayas.	Kangra; eggs.
148	The rose-ringed "	" <i>torquatus</i> ...	Ditto	Ditto	Throughout the plains	Season nearly over.
149	The rose-headed "	" <i>purpureus</i> ...	Ditto	Ditto	Western continental India.	Ditto.
150	The slaty-headed "	" <i>schisticeps</i> ...	Ditto	Ditto	The Himalayas	Murree, 20th; eggs.
152	The red-breasted "	" <i>javanicus</i> ...	Ditto	Ditto	Bengal and eastern sub-Himalayas.	Very little known.
153	The Indian Loriquet	<i>Loriculus vernalis</i> ...	Ditto	Ditto	North-eastern India	Ditto.

* It is said to lay in hollow trees.

154	The Himalayan pied Woodpecker	Picus himalayanus	None	In artificial holes in trees.	The Himalayas from Sikkim west.	Kumaon, 10th; eggs.
156	The lesser black	" cathpharius	Ditto	Ditto	The eastern Himalayas	Nepal, Sikkim; eggs.
157	The Indian spotted	" macei	Ditto	Ditto	The Himalayas and eastern Bengal.	Masuri, 20th; eggs.
159	The brown-fronted	" brunneifrons	Ditto	Ditto	The western Himalayas from Nepal.	Hazara, 25th; Kumaon; eggs.
160	The yellow-fronted	" maharattensis	Ditto	Ditto	Throughout the plains	Season nearly over.
161	The rufous-bellied	Hypopicus hyperythrus	Ditto	Ditto	The Himalayas	Murree, 25th; eggs.
163	The Himalayan pigmy	Yungipicus pygmeus	Ditto	Ditto	The western Himalayas	Very little known.
164	The southern pigmy	" hardwickii	Ditto	Ditto	Throughout the plains	Season nearly over.
170	The scaly-bellied green	Gecinys squamatus	Ditto	Ditto	The eastern Himalayas	Kangra, 5th; Kumaon; eggs.
171	The lesser Indian green	" striolatus	Ditto	Ditto	The forests of India proper.	Very little known.
172	The black naped green	" occipitalis	Ditto	Ditto	The Himalayas	Season commences.
180	The common gold back	Brachypternus aurantius	Ditto	Ditto	Throughout the plains	First brood ends.
186	The speckled Piculet	Vivia innominata	Ditto	Ditto	The Himalayas	Kumaon, 10th; eggs.
192	Hodgson's green Barbet	Megalomahodgsoni	Ditto	Ditto	The lower Himalayas	Nepal, Kumaon; eggs.
193	Franklin's "	" caniceps	Ditto	Ditto	The wooded parts of continental India.	Oudh, Rohilcund; eggs.
194	The small "	" viridis	Ditto	Ditto	The wooded parts of peninsular India.	The Nilgiris; eggs.
195	The blue-throated "	" asiatica	Ditto	Ditto	Lower Bengal and eastern Himalayas.	Very little known.
196	The golden-throated "	" franklinii	Ditto	Ditto	The eastern Himalayas	Nepal, Sikkim; eggs.
197	The crimson-breasted "	Xantholæma hæmacephala	Ditto	Ditto	Throughout the plains	Manbhoom, Sambhur; eggs.
225	The Himalayan red Honey-sucker	Ethopyga miles	Pear-shaped, side entrance.	Hanging from tips of branches	The eastern Himalayas	Nepal; eggs.
229	The maroon-backed "	" nipalensis	Ditto	Ditto	The eastern Himalayas and Khasia hills.	Nepal, Sikkim; eggs.
231	The black-breasted "	" saturata	Ditto	Ditto	Ditto	Nepal, Kumaon.
234	The purple "	Arachnechthra asiatica	Ditto	Ditto	Throughout the plains	Cawnpur, 2nd; Allahabad, 10th, 14th; eggs.
238	Tickell's Flower-pecker	Dicæum minimum	Ditto	Ditto	Bombay, central and N. E. India.	Poona, 5th; eggs.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
239	The Nilgiri Flower-pecker	Dicaeum concolor	Purse-shaped, front entrance	Hung from twigs in thick foliage.	The Nilgiris	Season nearly over.
240	The thick-billed "	Piprisoma agile	Ditto	Hung from thin branches.	Throughout India	Season over in plains.
241	The fire-breasted "	Myzanthus ignipectus	Ditto	In crevices of bark on high trees	The eastern Himalayas	Nepal.
243	The Himalayan Treecreeper	Certhia himalayana	A rough cup	In natural hollows in trees.	The western "	Murree, Kashmir; eggs.
248	The white-tailed Nuthatch	Sitta himalayensis	A shallow pad	Ditto	The Himalayas	Kumaon, 10th; eggs; 25th; young.
250	The chestnut-bellied "	" castaneiventris	None	Ditto	Locally throughout the plains.	Kohlikhumb; season ends.
253	The velvet-fronted "	Dendrophila frontalis	Ditto	Ditto	The hilly parts of India.	Nilgiris.
254	The Hoopoe	Upupa epops	Ditto	In holes in trees or buildings.	The western Himalayas	Season begins.
255	The Indian "	" nigripennis	Ditto	Ditto	Throughout India	Season ends in the north.
256	The Indian grey Shrike	Lanius laifora	A thick massive cup.	In small trees or thorny bushes.	Throughout the dry plains.	Salt range, Delhi; eggs.
257	The rufous-backed "	" erythronotus	Ditto	Ditto	Throughout India	The dry plains; eggs.
260	The pale rufous-backed "	" ciniceps	Ditto	Ditto	The hilly parts of India	Nilgiris; eggs
262	The bay backed "	" vittatus	A neat cup	Ditto	Throughout India	Nest building begins.
265	The common wood "	Tephrodornis ponticeirana.	A neat shallow cup.	In horizontal forks of trees.	Throughout the plains	Manbhum, 5th; eggs.
269	The dark grey cuckoo "	Volucivora melaschistus.	A small saucer.	Ditto	The Himalayas	Nepal, Masuri; eggs.
270	The large grey "	Graucalus macei	A broad saucer.	At tops of lofty trees.	Locally throughout India.	Oude; eggs.
271	The large Minivet	Pericrocotus speciosus	A small deep cup.	In high trees near end of branches.	The Himalayas	Nepal; eggs.
280	The long-tailed drongo Shrike	Dicurus longicaudatus	A neat saucer	In horizontal forks of trees.	In the plains in moist forests.	Nest building begins.
282	The bronzed "	Chaptalia cenea	A broad saucer.	Ditto	In forests throughout India.	Nepal; eggs.
284	The northern racket-tailed "	Edolius paradiseus	Ditto	Ditto	The Himalayas and eastern India.	Nepal, Kumaon; eggs.

286	The hair-crested drongo	Shrike	Chibia hottentota	...	A broad saucer.	In horizontal forks of trees.	The eastern Himalayas	Nepal, Kumaon; eggs.
287	The ashy swallow	"	Artamus fuscus	...	Ditto	On big boughs of trees or stumps.	Locally throughout India.	Nepal; eggs.
292	The white-browed Fantail	"	Leucocerca aureola	...	A tiny cup	In trees on thin horizontal branches.	Throughout continental India.	Barsilly 15th; Etawah, 15th; eggs.
293	The white-spotted	"	" pectoralis	...	A tiny inverted cone.	Ditto	The hills of south India.	Kotagiri; season begins.
295	The grey-headed Flycatcher	"	Cryptolopha cinereocapilla.	...	A water pocket.	Against moss covered trunks of trees.	The Himalayas, Wynad, and Nilgiris.	Dehra Doon, 10th; Kotagiri; eggs.
300	The black and orange	"	Ochromela nigrorufa	...	Large, globular, domed.	Low down in bushes or clumps.	The Nilgiris only.	Throughout the month.
301	The verditer	"	Emmyias melanops	...	A thick cup	In holes in banks or under bridges.	The Himalayas	Kumaon, 16th; Sikkim, 30th; eggs.
302	The Nilgiri blue	"	" albicaudata	...	Ditto	In holes in banks or under bridges.	The Nilgiris only	Throughout the month.
310	The white-browed blue	"	Muscicapula supercilialis	...	A small thick cup.	In holes or cracks in trees.	The Himalayas	Simla, Kumaon; eggs.
314	The fairy	"	Niltava sundara	...	A large thick pad.	In clefts of rocks or under stumps.	Ditto	Nepal; season ends
315	Macgregor's fairy	"	" macgregoriae	...	A large thick cup.	Ditto	The eastern Himalayas	Ditto; do.
316	The great fairy	"	" grandis	...	A large thick pad.	Ditto	Ditto	Ditto; do.
321	The rufous-breasted	"	Siphia supercilialis	...	A deep cup	On the ground at foot of trees	The Himalayas	Ditto; do.
324	The whitetailed robin	"	Erythrosterma hyperythra.	...	A large deep cup.	Unknown.	The north-west Himalayas.	Kashmir; do.
327	The chestnut-headed Wren	"	Tesia castaneocoronata	...	Large, globular, domed.	Near the ground in thick bushes.	The eastern Himalayas	Nepal; do.
331	The tailed hill	"	Pneopyga caudata	...	A deep thick cup.	On the ground near roots or stumps.	Ditto	Ditto; do.
338	The white-browed Shortwing	"	Brachypteryx cruralis	...	Globular, domed.	In creepers near roots of trees.	Ditto	Ditto; do.
339	The rufous-bellied	"	Callene rufiventris	...	A large thick cup.	In holes in banks or trees.	The Nilgiris	Ootacamund; do.
340	The white-bellied	"	" albiventris	...	A loose cup	In holes in trees	The Pulney hills	Pulneys; do.
	The blue-fronted	"	" frontalis	...	Globular, domed.	Ditto	The eastern Himalayas	(Requires confirmation)
342	The Malabar whistling Thrush	"	Myiophonus horsfieldii	...	A massive saucer.	On ledges of rocks or banks by water	The Himalayas	Kumaon; season begins.
343	The yellow-billed	"	" temminckii	...	Ditto	Ditto	The hills of south India	Nilgiris; do.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
346	The green-breasted ground Thrush	<i>Pitta cucullata</i> ...	Large, globular, domed.	On the ground in bamboos or thickets	The eastern Himalayas	Nepal ; season begins.
347	The brown water Ouzel	<i>Hydrobata asiatica</i> ...	A large ball of moss.	In clefts of rocks near water.	The Himalayas only....	Sutlej valley, 21st ; eggs.
352	The chestnut-bellied chat Thrush	<i>Orocetes erythrogastra</i>	A neat cup	In holes in banks or rocks.	Ditto	Kumaon, 15th ; Nepal ; eggs.
353	The blue-headed "	" <i>cinclorhyn-</i> <i>chus.</i>	Ditto ...	Ditto (often at roots of trees)	Ditto	Nepal ; season begins.
355	The rusty-throated bush "	<i>Geococcyx citrina</i> ...	A broad cup	In forks of small trees.	Ditto	Ditto ; do.
360	The Nilgiri Blackbird	<i>Merula similina</i> ...	Ditto ...	In forks of trees or saplings.	The Nilgiris	Throughout the month.
361	The grey-winged "	" <i>boulboul</i> ...	Ditto ...	In thick forks of trees.	The Himalayas	Sikkim ; season begins.
362	The white-collared Ouzel	" <i>albicincta</i> ...	Ditto ...	In banks or on stumps.	Ditto	Kumaon ; do.
363	The grey-headed "	" <i>castanea</i> ...	Ditto ...	Ditto ...	Ditto	Murree, 5th ; Kotagurh. 20th ; eggs.
368	The Indian missel Thrush	<i>Turdus hodgsoni</i> ...	Ditto ...	In thick forks of trees.	Ditto	Sutlej valley, 6th ; eggs.
388	The Nepal quaker "	<i>Alcippe nipalensis</i> ...	A deep mass- ive cup.	In low thick bushes	The eastern Himalayas	Nepal, 1st ; eggs.
389	The Nilgiri "	" <i>poiocephala</i> ...	Ditto ..	In forks of thick bushes or trees.	The hills of south India	Nilgiris, 5th ; eggs.
391	The black-headed wren Babbler	<i>Stachyris nigriceps</i> ...	Ditto ...	In grassy banks near bushes.	The eastern Himalayas	Pegu, 15th ; eggs.
393	The red-headed "	" <i>ruficeps</i> ...	Ditto ...	In bamboo clumps chiefly.	Ditto	Nepal ; season begins.
399	The spotted "	<i>Pellorneum ruficeps</i> ...	A loose dom- ed cup.	On the ground against a bush.	Southern India	Nilgiris ; eggs.
400	The rufous-necked scimitar "	<i>Pomatorhinus ruficollis</i>	Large, globular, domed.	On the ground in grass or weeds.	The eastern Himalayas	Sikkim, 25th ; eggs.
404	The southern "	" <i>horsfieldii</i>	Ditto ...	On the ground in a bush or clump.	The hills of south India	Conoor, 7th ; eggs.
405	The rusty-checked "	" <i>erythrogenys.</i>	Ditto ...	On the ground in a bush or clump.	The Himalayas	Masuri, Sikkim ; eggs.

407	The white-crested laughing Thrush	Garrulax leucolophus	A broad shallow cup.	In thick bushes or low trees.	The Himalayas east of Satej.	Nepal; season begins.
411	The white-throated "	" albugularis...	Ditto ...	Ditto ...	The Himalayas ...	Masuri; eggs.
412	The black-gorgetted "	" pectoralis ...	Ditto ...	In clumps of bamboo.	The eastern Himalayas	Pegu, 27th; eggs.
418	The variegated "	Trochalopteron variegatum.	A large deep cup.	In thick bushes or trees.	The western Himalayas	Simla; season begins.
423	The Nilgiri "	Trochalopteron cacchi-nans	Ditto ...	In forks of trees or bushes.	The Nilgiris	Conoor, 22nd; eggs.
425	The streaked "	Trochalopteron lineatum.	Cup-shaped	In low bushes or banks.	The Himalayas ...	Masuri, 29th; eggs
428	The hoary Barwing	Actinodura nipalensis	A shallow cup	In holes in rocks or banks.	The eastern Himalayas	Sikkim; season begins.
432	The Bengal Babbler	Malacocercus canorus	A loose straggling cup.	In thick bushes or small trees.	The plains of continental India.	Nest building begins.
433	The white-headed "	" griseus...	Ditto ...	In thorny hedges and low trees.	The plains of south India.	Ditto.
436	The large grey "	" malcolmi	Cup-shaped	In thorny trees and bushes.	Throughout the plains	Cawnpur, 1st; eggs.
438	The striated bush "	Chattarhoa caudata ...	Ditto ...	In low bushes or clumps of grass.	Ditto	Saharampur, 8th; eggs.
439	The " reed "	" earlii ...	Ditto ...	In reeds or clumps of grass.	Locally in continental India.	Saharampur. Delhi; eggs.
444	The Himalayan black Bulbul	Hypsepetes psaroides	A neat cup	In forks of bushes or trees.	The Himalayas ...	Nest building begins.
445	The Nilgiri "	" nilgiriensis	A rough shallow cup.	In dense bushes or clumps.	The Nilgiris	Throughout the month.
447	The rufous-bellied "	" maclellandii	A neat shallow saucer	Hung from a fork in thick foliage.	The eastern Himalayas	Nepal; season begins.
450	The yellow-browed bush "	Criniger ieticus ...	A small shallow cup	Ditto ...	The hills of south India	Nilgiris; eggs.
458	The white-checked crested "	Otocompsa leucogenys	A neat cup	In bushes or low trees.	The Himalayas ...	Hazara, 24th; Masuri; eggs.
460	The red-whiskered "	" emeria ...	Ditto ...	In thick bushes or creepers.	The moist parts of upper India	Throughout the month.
461	The southern red-whiskered "	" fuscicaudata	Ditto ...	In isolated bushes	The hills of south India	Conoor, 22nd; eggs.
462	The common Bengal "	Pycnonotus pygæus ...	A small slender cup.	In small trees or bushes.	The Himalayas and eastern Bengal.	Dera Doon and Calcutta; eggs.
463	The common Madras "	" pusillus ...	Ditto ...	Ditto	Throughout the plains	Kotagiri, Fatehgurh, 30th; eggs.
	Jerdon's green "	Phyllornis jerdoni ...	A small shallow cup.	In high trees near tips of branches.	Central and southern India.	Manblum, 4th; eggs.

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468	The white-winged green Bulbul	<i>Iora typhla</i> ...	A tiny cup	In trees near tips of boughs.	Locally throughout India.	Moradabad, 18th; eggs.
472	The black-headed Oriole	<i>Oriolus melanoccephalus</i>	A neat deep cup.	In high trees hung from outer forks.	Locally in eastern continental India.	Manbhum, 5th; eggs.
475	The magpie Robin	<i>Copsychus saularis</i> ...	A shallow saucer.	In holes in trees or walls.	Throughout India ...	Salarunpur, 23rd; eggs
476	The Shama	<i>Kittaciencia macroura</i> ...	Ditto ...	Ditto ...	Peninsular and eastern India.	Tenasserim, 17th; eggs.
479	The southern brown-backed Robin	<i>Thamnobia fulcata</i> ..	A small cup	On the ground sheltered or in holes in walls.	Southern India ...	Poona, 3rd, 15th; eggs.
480	The brown-backed "	" <i>cambaiensis</i>	Ditto ...	Ditto ...	The plains of upper India.	Salarunpur, 16th, 27th; eggs.
481	The black Bushchat	<i>Pratincola caprata</i> ...	A shallow pad	On the ground under shelter.	The Himalayas and continental India.	Salarunpur, 3rd; eggs.
482	The southern "	" <i>atrata</i> ...	Ditto ...	In holes in banks or walls.	The hills of south India	Conoor, 1st, 12th; eggs.
483	The common Indian "	" <i>indica</i> ...	A small cup	Ditto ...	The Himalayas and N W. Punjab.	First brood nearly over.
486	The iron grey "	" <i>ferrea</i> ...	Ditto ...	Ditto ...	The Himalayas ...	Kooloo, 17th; eggs,
494	The brown Rockchat	<i>Cercomela fusca</i> ...	A shallow cup	Ditto ...	The dry parts of continental India.	Sambhur, 10th; eggs.
504	The blue-headed Redstart	<i>Rutacilla ceruleocephala</i> .	Ditto ...	Ditto ...	The alpine Himalayas	Spitti, 16th; eggs.
507	The blue Woodchat	<i>Larivora cyana</i> ...	Ditto ...	In holes in decayed trees.	The Himalayas and Nilgiris	Nilgiris; eggs.
530	The Indian Tailorbird	<i>Orthotomus longicauda</i>	A deep cup	Among leaves sown together ...	Throughout India proper.	Calcutta, 24th, 25th; eggs.
	The streaked scrub Warbler	<i>Drymæca inquieta</i> ...	Large, globular, domed.	In low thorny shrubs	The trans-Indus Hills	Nowshera, 28th; eggs.
	The ashy wren "	<i>Prinia socialis</i> ...	A cup sown in leaves.	Hanging low bushes	Southern India ...	Nilgiris; eggs.
534	The fuscous "	<i>Drymoipus fuscus</i> ...	Deep, neat domed.	In small bushes or clumps of grass.	The Terri, Deccan, and Nilgiris.	Kotagiri; season begins.

549	The black-throated hill Warbler	Suya atrogularis ...	Deep, neat, domed.	In small bushes or clumps of grass.	The eastern Himalayas	Nepal; season begins.
553	Sykes's "	Hyppolais rama ...	Loose, deep, domed.	In low thorny bushes	The central and N. W. Provinces.	Etiawah, 1st; eggs.
571	The black-eared "	Abornis schisticeps ...	Globular, domed.	On the ground in mossy banks.	The Himalayas ...	Throughout the month.
572	The grey-headed "	" xanthoschistis ...	Ditto ...	Ditto ...	The eastern Himalayas	Nest building begins.
573	The white-browed "	" albosuperciliaris.	Ditto ...	Ditto ...	The Himalayas ...	Murree, 16th; Kangra, 8th; eggs.
584	The western spotted Forktail	Henicurus maculatus	A massive cup	On banks or rocks near water.	The western Himalayas	Kangra, 9th; eggs.
586	The slaty-backed "	" schistaceus	Ditto ...	Ditto ...	The eastern "	Darjeeling, 25th; eggs.
589	The Indian pied Wagtail	Motacillamaderaspatana	A shallow pad	On the ground or buildings by water	Throughout the plains	Saharanpur, 26th; Deccan; eggs.
598	The Nilgiri Pipit	Anthus montanus ...	A shallow cup	On the ground under a tuft of grass.	The Nilgiris ...	Nest building begins.
600	The Indian Titlark	Corydalla rufula ...	A shallow saucer.	On the ground under a clod or tussock.	Throughout India ...	Throughout the month.
603	The Nilgiri "	Agrodroma cinnamomea	Ditto ...	Ditto ...	The Nilgiris ...	Ditto.
604	The brown rock Pipit	" griseorufescens.	Ditto ...	Ditto ...	The western Himalayas	Nest building begins.
606	The upland "	Heterura sylvana ...	Ditto ...	Ditto ...	The Himalayas from Nepal west.	Nepal; season begins.
614	The red-billed hill Tit	Leiothrix luteus ...	A substantial cup.	In thick bushes ...	The eastern Himalayas	Darjeeling, 24th; eggs.
631	The Indian white-eyed "	Zosterops palpebrosus	A tiny cup regular.	Hung from twigs in trees or bushes	Throughout India ...	Nilgiris and Sikkim; eggs
633	The firecap "	Cephalopyrus flammeiceps.	A deep thick cup.	In holes in decayed trees	The western Himalayas	Murree, Kashmir.
634	The red-capped "	Egithaliscus erythrocephalus.	Deep, compact, domed.	Wedged in forks of stunted trees.	The Himalayas ...	Kumaon; season begins.
638	The crested black "	Lophophanes melanolophus.	A shallow pad	In holes in walls or trees	Ditto ...	Kumaon, 12th; Simla, 10th; eggs.
644	The mountain "	Parus monticolus ...	A rough mass of feathers.	Ditto ...	Ditto	Throughout the month.
645	The Indian grey "	" cinereus ...	A shallow pad	Ditto ...	In all wooded hills ...	First brood ends.
647	The yellow-checked "	Macholophus xanthogenys.	Ditto ...	Ditto ...	The western Himalayas	Kumaon, Kangra; eggs.

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660	The bow-billed Corby	<i>Corvus culminatus</i> ...	A large compact cup.	In forks of solitary trees.	Throughout the plains	Season nearly over.
665	The Jackdaw	" <i>monedula</i> ...	A small flat-form.	In holes in buildings or trees.	The western Himalayas	Kashmir; season begins.
666	The Himalayan Nutcracker	<i>Nucifraga hemispila</i> ...	A large compact cup.	High up in pine trees.	Ditto ...	Season nearly over.
669	The Himalayan Jay	<i>Garrulus bispecularis</i>	A neat compact cup.	On thick boughs or forks of trees.	The Himalayas ...	Nepal, 20th; Murree, 29th; eggs.
670	The black-throated "	" <i>lanceolatus</i>	A loose shallow cup.	In small trees or saplings.	The Himalayas from Nepal west.	Murree, 20th; Kangra, 28th; eggs.
671	The red-billed blue "	<i>Urocissa occipitalis</i> ...	Ditto ...	In trees usually small ones.	The Himalayas from Nepal to Sulej.	Kumaon, 20th; eggs.
673	The green "	<i>Cissa venatoria</i> ...	Ditto ...	In trees or bamboo clumps.	The eastern Himalayas	Pegu, 10th; eggs.
674	The Indian Treepie	<i>Dendrocitta rufa</i> ...	Ditto ...	In trees near the top.	Throughout continental India.	Hansi, Fatchgurl; eggs.
678	The long-tailed "	" <i>leucogastra</i>	Ditto ...	In small trees or saplings.	The forests of south India.	Travancore, 8th; young.
682	The bright Starling	<i>Sturnus nitens</i> ...	None	In holes in trees or buildings.	The north-west Punjab.	Peshawur; eggs.
685	The bank Mynah	<i>Acridotheres gingini-</i> <i>anus.</i>	Ditto ...	In deep holes in banks or wells.	The plains of continental India.	Season commences.
686	The jungle "	<i>Acridotheres fuscus</i> ...	Ditto ...	In holes in trees or buildings	In all wooded hilly regions.	The Nilgiris; eggs.
691	The spotted-winged Starc	<i>Saraglossa spiloptera</i>	Ditto ...	In holes in trees ...	The Himalayas. ...	Naini Tal; eggs.
692	The southern hill Mynah	<i>Eulabes religiosa</i> ...	Ditto ...	Ditto	Southern India ...	Travancore, 21st; eggs.
693	The large "	" <i>intermedia</i> ...	Ditto ...	Ditto	The eastern sub-Himalayas.	Season nearly over.
694	The common Weaver bird	<i>Ploceus baya</i> ...	A pendent retort.	In trees hung from tips of boughs.	Throughout India proper.	The extreme south.
699	The spotted Munia	<i>Munia undulata</i> ...	Large, oval, domed.	In thick thorny bushes usually.	In all moist wooded tracts.	Nilgiris; eggs.
701	The white-backed "	" <i>striata</i> ...	Ditto ...	Ditto	Peninsular and eastern India.	Manbhum, 3rd; eggs.
703	The pin-tailed "	" <i>malabarica</i> ...	Ditto ...	In small trees, thick bushes, or caves.	Throughout India proper.	First brood nearly over.

706	The Indian house Sparrow	Passer indicus ...	A globular mass.	In and about houses.	Throughout India ...	Throughout the month.
710	The tree "	" montanus ...	Ditto ...	In holes in trees or buildings.	The eastern Himalayas	Sikkim ; eggs.
711	The yellow-throated "	" flavicollis ...	Ditto ...	In holes in decayed trees.	Throughout India (except extreme S. E.)	Etawah (North-West Provinces) ; eggs.
724	The crested black and chestnut Bunting	Melophus melanicterus	A neat shallow cup.	In holes in banks or walls.	Locally in continental India.	Nepal, 15th ; eggs.
756	The red-winged bush Lark	Mirafra erythroptera	A shallow pad	On the ground near tufts of grass.	The dry plains of continental India	Etawah (North-West Provinces) ; eggs.
757	The singing "	" cantillans ...	A pad (sometimes domed.)	Ditto ...	Ditto (but local)	Hansi ; eggs.
758	The rufous-tailed finch "	Ammonanes phonicura	A slight circular pad	On the ground near clod or tussock.	Throughout India (south of Agra)	Hoshungabad, 28th ; eggs.
760	The black-bellied "	Pyrrhalauda grisea ...	A tiny shallow pad.	Ditto ...	Throughout the plains.	Etawah ; Sambhur ; eggs.
762	The eastern sand "	Alaudala raytal ...	A tiny saucer	On the ground by grass or tiny bush.	Eastern continental India.	Cawnpur ; eggs.
767	The Punjab "	" adamsi ...	Ditto ...	Ditto ...	Western continental India	Jhelum ; eggs.
	The Indian sky "	Alauda gulgula ...	Ditto ...	Ditto ...	The plains of continental India.	Throughout the month.
	The Nilgiri , "	" australis ...	Ditto ...	Ditto ...	The hills of south India	The Nilgiris ; eggs.
768	The Malabar crested "	" malabarica ...	Ditto ...	Ditto ...	Southern India	Mysore ; eggs.
769	The common "	Galeria cristata ...	Ditto ...	Ditto ...	The dry plains of continental India.	Sambhur, 19th ; eggs.
773	The lesser "	" boysii ...	Ditto ...	Ditto ...	Ditto	Season nearly over.
	The southern green Pigeon	Crocepus chlorogastera	A small platform.	In small trees or bushes.	Throughout the plains (except Bengal.)	Hansi ; eggs.
774	The orange-breasted green "	Osmotreron bicincta ...	Ditto ...	Ditto ...	The moist forests of eastern India	Nepal, Hill Tipperah ; eggs
775	The grey-fronted "	" malabarica	Ditto ...	On outer boughs of trees.	The wooded hills of south India.	Terai Hills, 10th ; eggs.
778	The kokla "	Sphenocercus sphenurus.	Ditto ...	Ditto ...	The Himalayas	Nest building begins.
786	The Nilgiri wood "	Palumbus elphinstoni	Ditto ...	On thick boughs in dense forests.	The Nilgiris	Kotagiri ; eggs.
788	The Indian blue rock "	Columba intermedia ...	Ditto ...	On ledges of buildings chiefly.	Throughout India proper.	Saharnpur ; eggs.

Nos in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
793	Sykes' turtle Dove	<i>Turtur meena</i> ...	A tiny plat- form.	In low trees in thick foliage.	Peninsular and eastern India.	Hill Tipperah; eggs.
794	The brown "	" <i>cambaiensis</i> ...	Ditto ...	In low trees or bushes.	Throughout the plains	Throughout the month.
795	The spotted "	" <i>suratensis</i> ...	Ditto ...	Ditto ...	In all wooded parts ...	Nepal, Kumaon; eggs.
796	The Indian ring "	" <i>risorius</i> ...	Ditto ...	Ditto ...	Throughout India pro- per.	Throughout the month.
797	The ruddy "	" <i>humilis</i> ...	Ditto ...	Ditto ...	Ditto (but local)	Ditto.
798	The emerald "	<i>Chalcophaps indicus</i> ...	A shallow saucer.	In low thick trees or bushes.	In all densely wooded tracts.	Masuri; eggs.
800	The painted Sandprouse	<i>Pterocles fasciatus</i> ...	None ...	On the ground by grass or tiny bush.	The rocky parts of up- per India.	Sambhur, Jodhpur; eggs.
802	The common "	" <i>exustus</i> ...	Ditto ...	On the bare ground	The sandy plains of continental India.	Sinsa, Fatehgarh; eggs.
810	The white-crested kalij Pheasant	<i>Gallophaps albocrista- tus</i> .	A shallow pad	On the ground in dense cover	The Himalayas ...	Dehra Doon; eggs.
812	The red jungle Fowl	<i>Gallus ferugineus</i> ...	A few dry leaves.	Ditto ...	Sub-Himalayas, C. P., and Madras.	Ditto; ditto.
813	The grey "	" <i>sonneratii</i> ...	Ditto ...	Ditto ...	The hills of central and south India.	Kotagiri, Mount Aboo; eggs.
814	The red spur "	<i>Galloperdix spadiceus</i>	Ditto ...	Ditto ...	South India extending to Bundelkhand.	Ditto; ditto.
815	The painted "	" <i>lunulosus</i>	Ditto ...	Ditto ...	The eastern peninsular and C. P.	Raipur (C. P.); eggs.
820	The Chukor	<i>Caccabis chukor</i> ...	Ditto ...	On the ground on grassy slopes.	Himalayas. trans-In- dus, and Punjab hills.	The lower hills; eggs.
821	The Seesee	<i>Ammodendix bonhami</i>	Ditto ...	On the ground un- der stone or bush.	The trans-Indus hills and Salt range.	Nowshera, 10th; eggs.
822	The grey Partridge	<i>Orygornis ponticriana</i>	Ditto ...	On the ground in bushes or grass.	The open plains of India proper.	Throughout the month.
823	The krah "	" <i>gularis</i> ...	Ditto ...	Ditto ...	The eastern sub-Hi- malayan Terai.	Nepal Terai.
827	The rock bush Quail	<i>Perdicula asiatica</i> ...	Ditto ...	On the ground in long grass.	Throughout India, locally.	First brood nearly over.

829	The common Quail	<i>Coturnix communis</i> ...	A few dry leaves.	On the ground under shelter.	Northern India ...	Purneah, 29th; Lahore, 14th; eggs.
835	The lesser button "	<i>Turnix dussumieri</i> ...	Ditto	Ditto	Locally throughout India proper.	Hansi, 16th; eggs.
836	The Indian Bustard	<i>Eupodotis edwardsii</i> ...	None	On the ground in scanty grass jungle.	The dry parts of continental India.	Sirsa, 19th; eggs.
840	The Indian courier Plover	<i>Cusorius coromandelicus</i> .	Ditto	On the ground in waste or fallow land.	In all dry plains (except Punjab).	Seetapur, Oudh; eggs.
	The cream-coloured courier Plover	<i>Cursorius gallicus</i> ...	Ditto	Ditto	The Punjab	Sirsa, 28th; eggs.
843	The lesser swallow "	<i>Glaucula lactea</i> ...	Ditto	On sandy banks or islands (gregarious).	Continental India	Cawnpur, 3rd; Aligurh, 13th; eggs.
849	The ringed "	<i>Ogialites curonius</i> ...	Ditto	On the sand in beds of rivers.	Throughout India	Central Provinces; eggs.
855	The red-wattled "	<i>Lobivanellus goensis</i> ...	Ditto	On the ground on raised spots.	Ditto	Saharunpur, 10th; eggs.
856	The yellow-wattled "	<i>Sarcophorus bilobus</i> ...	Ditto	On the ground in waste or fallow land.	In dry places throughout India.	Cawnpur, 26th; eggs.
857	The spurwing "	<i>Hoplopterus malabaricus</i> .	Ditto	On the sand on islands or river banks.	Throughout India	Cawnpur, 3rd; Aligurh, 5th; eggs.
858	The great Indian stone "	<i>Esacus recurvirostris</i>	Ditto	Ditto	Ditto	Cawnpur, 3rd; Aligurh, 13th; eggs.
859	The " "	<i>Oedonemus crepitans</i>	Ditto	On the ground near bushes or trees.	Ditto (but locally)	Hansi. Etawah, Manbhun.
873	The painted Snipe	<i>Rhyncoceros bengalensis</i>	A large pad	On the ground in wild rice or rushes.	In all moist tracts	Calcutta, 7th; eggs.
898	The Stilt	<i>Himantopus candidus</i>	None	On the ground in salt works (gregarious).	Near Delhi and Gurgaon.	Breeding season begins.
923	The common Heron	<i>Ardea cinerea</i> ...	A loose platform.	On large trees (gregarious).	Throughout India locally.	Hansi, Oude, Saugor; eggs.
924	The purple "	" <i>purpurea</i> ...	Ditto	In thick beds of reeds (gregarious).	Throughout India proper.	Saugor; eggs.
937	The night "	<i>Nycticorax griseus</i> ...	Ditto	In high trees (sometimes in reeds).	Throughout India	Kashmir; eggs.
942	The king Curlew	<i>Geronticus papillosus</i>	Ditto	High up in large trees.	Throughout the plains	Hansi, 3rd; eggs.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
983	The gull-billed Tern	Gelochelidon anglicus	None	On the sand on islands in rivers.	The Punjab	Wazeerabad, 28th; eggs.
985	The large river "	Sterna seena	Ditto	Ditto (gregarious)	Throughout India	Cawnpur, 3rd; eggs.
987	The black-bellied "	" javanica	Ditto	Ditto (ditto)	Ditto	Cawnpur, 3rd; Saharunpur, 15th, eggs.
988	The little "	Sternula minuta	Ditto	Ditto (ditto)	Ditto	Cawnpur, 3rd and 10th; eggs.
995	The scissor Bill	Rhynchops albigollis	Ditto	Ditto (ditto)	Ditto	Cawnpur, 3rd; Jhelum, 24th; eggs.
1005	The common Cormorant	Graculus carbo	A loose platform.	On rocks by water (sometimes in trees.)	Upper India	Etawah (requires confirmation.)



MARSHALL, DEL.

NEST OF THE WHITE-THROATED FANTAIL.

(Leucocerca fuscoventris.)

MAY.

THIS is in all parts of India the most prolific season of the year. Nearly thirty kinds of birds of prey are still breeding, and almost all the non-climbing birds have commenced to lay. The shrikes, the common drongo, the large grey babbler, the doves, and the red wattled plover are now breeding in all parts of the country.

In the HIMALAYAS, the white scavenger vulture is still laying. The kestrel, shikra, sparrow hawks, long-legged eagles, hawk eagles, serpent eagles, kites, wood owls, scops owls, owlets, mosque swallows, frogmouths, goatsuckers, European bee eater, rollers, and broadbills are laying. Most of the woodpeckers still have eggs, though for them it is late. The Marshall's barbet begins laying, while the other barbets still have eggs. The cuckoos, honey suckers, flower-peckers, tree creepers, nuthatches, hoopoes, shrikes and drongos of all kinds, flycatchers, wrens, shortwings, thrushes of all kinds, black-birds, ouzels, wren babblers, laughing thrushes, barwings, bulbuls, robins, bushchats, woodchats, water robins, reed warblers, tailor birds, warblers of all kinds, golden-crested wrens, forktails, wagtails, pipits, all the hill tits (*Leiotrichiæ*), true tits, hedge sparrows, crows, jays, magpies, starlings, mynahs, sparrows, buntings, grosbeaks, skylarks, pigeons, doves, pheasants, grouse, partridges, quail, plovers, woodcock, sandpipers, coots, bittern, herons, geese, ducks, and grebe have all begun to lay: while the *rosy minivet*, the *red-billed wren warbler*, the *magpie sibia*, the *white-tailed ruby throat*, the *paddy field warbler*, *strong-footed hill warbler*, the *golden-breasted hill tit*, *Hodgson's munia*, the *white-capped bunting*, the *speckled wood pigeon*, *Baillon's crake*, the *little bittern* and the *whiskered tern* have all begun to pair and build.

In the PUNJAB, the red-headed merlins, the sand martin, the Egyptian bee eater, the rose-headed paroquet, the speckled piculet, the common bulbul, the magpie robins, the common bushchat, the bright starling, the pied mynah, the pin-tailed munia, the desert finch lark, the sand larks, the crested lark, the common sand-grouse, the black partridge, the chukor, the seese, the grey partridge, the big bustard, the courier plover, the great stone plover, the stone

plover, the stilt, the king curlew, and the gull-billed tern are all laying: while the *white-necked storks* are pairing and building.

In the NORTH-WEST PROVINCES the true eagles, buzzards, kites, screech owl, scops owl, jungle owlet, wire-tailed swallow, goat-suckers, rollers, white-breasted and little kingfishers, hornbills, koel, concal, sirkeer, purple honey sucker, fantails, babblers, bulbuls, orioles, robins, pied wagtails, treepies, mynahs, sparrows, bush larks, finch larks, skylarks, green pigeons, rock pigeons, sandgrouse, jungle fowl, partridges, plovers, and common cormorants have eggs; and *Stewart's wren warblers*, the *Bengal bush larks*, *white-necked storks*, *shell ibis*, and *white ibis* are pairing and building.

In BENGAL, the spotted eagle, the crested swift, the white-breasted and stork-billed and little kingfishers, the amethyst-rumped honey suckers, king crows, the yellow-breasted and red-capped wren babblers, the striated marsh babblers, red-whiskered bulbuls, the black-headed oriole, the shama, titlark, sparrows, and many other kinds are laying. The *lesser concal*, the *Bengal bushlark*, the *florikin*, the *yellow bittern*, and the *pink-headed duck* are commencing to pair and build.

In CENTRAL INDIA, the shikra, the lesser harrier eagle, the white-eyed buzzard, the Nilgiri nightjar, the blue-tailed bee eater, the blue redbreasts, the striated marsh babblers, the white-eared crested bulbuls, the brown-backed robins, the brown rock chats, pied wagtails, green amadavats, the sand larks, the painted sandgrouse and the common sandgrouse, the grey jungle fowl, the spur fowl, courier plovers, wattled plovers, the brown rails, purple herons, and some others have got eggs. The *white ibis* are pairing and building towards the end of the month.

In SOUTHERN INDIA, the house and mosque swallows are laying. Also the crag martins, swiftlets, ghat nightjars, small green barbets, crimson-breasted barbets, long-tailed drongos, white-spotted fantails, grey-headed and black and orange flycatchers, blue redbreasts, short wings, blackbirds, Nilgiri quaker thrushes, scimitar babblers, laughing thrushes, babblers, black bulbuls, yellow-browed bush bulbuls, bushchats, the fuscous and ashy wren warblers, the Nilgiri pipit and Nilgiri tit lark, the white-eyed tit, the grey tit, the black crows, the common crows, the hill mynah, the weaver bird, the spotted munia and Indian amadavat, the skylark, the grey jungle fowl, the red spur fowl, and the little grebe have all got eggs during the month. Towards the end of it, the *orange minivets*, *black-headed*

quaker thrush, *white-browed bush bulbuls*, and *peafowl* commence pairing and building.

In the ANDAMANS and NICOBARS, the *black-naped ternlet* is laying, and the *sea terns* and *gulls* begin to congregate for breeding purposes on the rocky islands in the Indian ocean and Persian gulf. The island of Astolah is well known as a breeding place.

MAY.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
6	The white scavenger Vulture	<i>Perenopteron gingimianus</i>	Platform ...	On cliffs or large trees.	Throughout India ...	The Himalayas ; eggs.
16	The red-headed Merlin	<i>Lithofalco chiequera</i> ...	A compact massive cup.	In forks of trees ...	Throughout the plains..	The Punjab ; eggs.
17	The Kestrel	<i>Tinnunculus alaudarius</i>	A large platform.	On ledges of cliffs	Himalayas, Nilgiris, and Suleiman range.	Kangra, 27th ; Kumaon ; eggs.
18	The lesser "	<i>Erythropus cenchris</i> ...	Ditto ...	Ditto ...	The Nilgiris ...	Very little known.
23	The Shikra	<i>Micronisus badius</i> ...	A loose cup	High up in lofty trees.	Throughout India ...	Kashmir, 24th ; C. P. ; eggs.
24	The sparrow Hawk	<i>Accipiter nisus</i> ...	A small platform	Ditto ...	The western Himalayas	Kashmir, Gangoolri ; eggs
28	The dove "	" <i>melaschistus</i>	Ditto ..	On ledges of cliffs.	The Himalayas ...	Simla, 1st, 29th ; eggs.
29	The spotted Eagle	<i>Aquila noevia</i> ...	A large platform.	In high trees ...	Central and northern India.	Saharunpur, 12th, 28th ; eggs.
29	The Indian tawny "	" <i>vindhiana</i> ...	Ditto ...	Ditto ...	The dry plains of upper India.	Saharunpur, 12th ; eggs.
30	The long-legged "	" <i>hastata</i> ...	Ditto ...	Ditto ...	Central and northern India.	Oudh, 12th ; Hazara, 6th ; eggs.
36	The Nepal hawk "	<i>Spizactes nipalensis</i> ...	Ditto ...	Ditto ...	The Himalayas only ...	Hazara, 6th ; eggs.
	The changeable "	" <i>caligatus</i> ...	Ditto ...	Ditto ...	Bengal and the sub-Himalayas.	Kumaon, Bhabur.
38	The short-toed "	<i>Circetus gallicus</i> ...	Ditto ...	Usually on high trees.	The dry plains of upper India	Breeding season ends.
39	The crested serpent "	<i>Spilornis cheela</i> ...	Ditto ...	In thick forks of trees.	The sub-Himalayan valleys.	Kangra ; season ends.
48	The lesser Indian-harrier "	" <i>minor</i> ...	Ditto ...	Ditto ...	The Central Provinces	Raipur (C. P.) ; eggs.
	The white-eyed Buzzard	<i>Poliornis toesa</i> ...	A small platform.	In forks of trees ...	The dry plains of continental India.	Sambhur 27th ; Meerut, 1st, 10th, 27th ; eggs.
	The greater Indian Kite	<i>Milvus major</i> ...	Irregular platform.	Ditto ...	The western Himalayas	Kashmir ; eggs.
	The crested-honey Buzzard	<i>Pernis cristata</i> ...	Ditto ...	Ditto ...	Locally throughout India proper.	Saharunpur, 15th, 30th ; eggs.

59	The black-winged Kite	<i>Elanus melanopterus</i> ...	A shallow compact cup	In forks of trees ...	Locally throughout India proper.	Dehra Doon (?)
60	The Indian screech Owl	<i>Strix indica</i> ...	None ...	In holes in trees or buildings.	Throughout the plains	Agra; eggs.
64	The Himalayan brown wood "	<i>Bulacca newarensis</i> ...	Ditto ...	On a ledge on a low precipice.	The Himalayas ...	Sinla, 25th; eggs.
74	The Indian scops "	<i>Ephialtes pennatus</i> ...	Ditto ...	In holes in trees ...	Locally throughout India	Saharunpur (?)
75	The barefoot "	" <i>spilocephalus</i> ...	Ditto ...	Ditto	The Himalayas ...	Sinla, 1st; Murree, 30th; eggs.
75	The Nepal "	" <i>letitia</i> ...	Ditto ...	Ditto (or clefts in rocks)	The eastern Himalayas	Kumaon, 22nd; eggs.
77	The plume-foot " The jungle Owlet	" <i>plumipes</i> ...	Ditto ...	Ditto	The Himalayas ...	Sinla, 13th; eggs.
79	The large-barred " The collared pigmy "	<i>Athene radiata</i> ...	Ditto ...	Ditto	Locally throughout India	The sub-Himalayas.
80		" <i>culiculoides</i> ...	Ditto ...	Ditto	The Himalayas ...	Kangra; season ends.
82		<i>Glaucidium brodiei</i> ...	Ditto ...	Ditto	The Himalayas and Khasia Hills.	Masuri, 1st; Murree 30th; eggs.
82	The common Swallow	<i>Hirundo rustica</i> ...	A deep semi-circular cup.	In and about houses	The Himalayas ...	Season nearly over.
83	The Nilgiri house "	" <i>domicola</i> ...	A semi-circular saucer.	In buildings or caves	Nilgiris, Ceylon, Tenasserim.	Conoor; eggs.
84	The wire-tailed "	" <i>ruficeps</i> ...	Ditto ...	Under bridges or on rocks by water.	Locally throughout India	Saharunpur, 24th; eggs
85	The great India mosque " The mosque "	" <i>daurica</i> ...	A tubular retort.	In caves or buildings	The Himalayas ...	Kumaon, 6th; Murree, 30th; eggs.
89	The common sand Martin	<i>Cotyle sinensis</i> ...	Ditto ...	Ditto	Throughout India proper.	Nilgiris; season ends.
90	The dusky crag "	" <i>concolor</i> ...	A loose cup	In holes in river banks (gregarious)	Throughout India (rare in south).	Jhelum; eggs.
91	The " "	" <i>rupestris</i> ...	A semi-circular cup.	Against buildings or rocks.	Locally throughout India	The Nilgiris; eggs.
93	The Kashmir " The common Indian Swift	<i>Chelidon cashmirensis</i> ...	Ditto ...	Against rocks or caves (gregarious)	The Himalayas.	Season ends.
100		<i>Cypselus abyssinicus</i> ...	Semi-globular.	Ditto	Ditto	Ditto.
	The palmroof "	" <i>infumatus</i> ...	A tiny watch pocket.	Against buildings (gregarious).	Throughout India ...	Throughout the month.
103	The southern hill Swiftlet	<i>Collocalia unicolor</i> ...	A small semi-circular saucer.	In palm leaf thatches.	The Garo and north Cachar hills.	Season ends.
				In caves or on rocks (gregarious).	The Nilgiris and Asam bamboo hills.	Throughout the month.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
104	The Indian crested Swift	<i>Dendrochelidon coronatus.</i>	A tiny half saucer.	On dead boughs of high trees.	The forests of India proper.	Darjeeling Terai; eggs.
106	The Sikkim Frogmouth	<i>Otothrix hodgsoni</i> ...	A broad pad	In trees on thick branches	The eastern Himalayas	Darjeeling, 10th; eggs.
107	The jungle Nightjar	<i>Caprimulgus indicus</i> ...	None	On the ground often near a bush.	The forests of continental India	Masuri; eggs.
108	The Nilgiri "	" <i>kelaarti</i> ...	Ditto	Ditto	South extending to central India.	Central Provinces; eggs.
109	The large Bengal "	" <i>albonotatus.</i>	Ditto	Ditto	The forests of upper India.	Kunnon; eggs.
111	The ghat "	" <i>atripennis</i> ...	Ditto	Ditto	The Nilgiris	Kotagiri, 10th; eggs.
112	The common Indian "	" <i>asiaticus</i> ...	Ditto	Ditto	Locally in upper India	Saharumpur, 18th; eggs.
114	Franklin's "	" <i>monticolus</i> ...	Ditto	Ditto	In wooded hills throughout India.	The sub-Himalayas.
	Unwin's "	" <i>unwini</i> ...	Ditto	Ditto	The north-western Himalayas.	Muree; eggs.
116	Hodgson's Trogon	<i>Harpactes hodgsoni</i> ...	Ditto	In holes in decayed trees	The eastern sub-Himalayas.	Darjeeling; eggs.
117	The common Bee eater	<i>Merops viridis</i> ...	Ditto	In deep holes in banks or plains.	Throughout India proper	Saharumpur, 10th; eggs.
118	The blue-tailed "	" <i>philippensis</i> ...	Ditto	In deep holes in banks.	Ditto	Raipur (C. P.); eggs.
120	The Egyptian "	" <i>egyptius</i> ...	Ditto	Ditto (or plains) ...	The dry plains of N. W. India.	Delhi; eggs.
121	The European "	" <i>apiaster</i> ...	Ditto	Ditto	The western Himalayas	Kashmir; eggs.
122	The blue-ruffed "	<i>Nyctornis athertonii</i> ...	Ditto	Ditto	The eastern sub-Himalayas.	(Requires confirmation).
123	The common Roller	<i>Coracias indica</i> ...	Ditto	In holes in trees or buildings.	Throughout India proper.	Saharumpur, 13th; eggs.
125	The European "	" <i>garula</i> ...	Ditto	Ditto	The western Himalayas	Kashmir; eggs.
126	The broad-billed "	<i>Eurystomus orientalis</i>	Ditto	In holes in lofty trees.	The eastern sub-Himalayas.	(Requires confirmation).
127	The Indian stork-billed King-fisher	<i>Pelargopsis gural</i> ...	Ditto	In holes in banks by running water.	Bengal and eastern sub Himalayas.	Calcutta; eggs.

129	The white breasted Kingfisher	Halcyon smyrnensis ...	None	...	In holes in river banks or wells.	Throughout India per.	Calcutta, 2nd; Saharunpur, 4th, 9th; eggs.
134	The little Indian "	Albedo bengalensis ...	Ditto	...	In holes in banks often by rivers.	Ditto	Delhra Doon, Sikkim Terai.
138	The yellow-throated Broadbill	Parisonus dalhousiae	Large rough pear-shaped.	...	Pendent from lofty trees	The eastern Himalayas	Very little known.
140	The great Indian Hornbill	Homraius bicornis ...	None	...	In holes in lofty decayed trees.	The eastern sub-Himalayas.	Kumaon, Bhabur.
144	The northern grey "	Meniceros " ...	Ditto	...	In holes in decayed trees.	Throughout the plains	Mynpuri (N. W. P.) ; 7th ; eggs.
149	The rose-headed Paroquet	Palaeornis purpureus...	Ditto	...	Ditto	Western continental India.	Murree ; eggs.
153	The Indian Loricquet	Loriculus vernalis ...	Ditto	...	Ditto	Bengal and eastern sub-Himalayas.	Season nearly over.
154	The Himalayan pied Woodpecker.	Picus himalayensis ...	None	...	In artificial holes in trees.	The Himalayas	Kumaon ; season ends.
156	The lesser-black "	" cathpharius ...	Ditto	...	Ditto	The eastern Himalayas	Nepal ; eggs.
157	The Indian spotted "	" macei ...	Ditto	...	Ditto	The Himalayas and eastern Bengal.	Murree, Kangra ; eggs.
159	The brown-fronted "	" brunneifrons ...	Ditto	...	Ditto	The Himalayas from Nepal west.	Hazara, 6th ; eggs.
161	The rufous-bellied pied "	Hypopieus hypertythrus	Ditto	...	Ditto	The Himalayas	Murree ; season ends.
163	The Himalayan pigmy "	Yungipicus pygmaeus	Ditto	...	Ditto	The western Himalayas	Kumaon ; do.
170	The scaly-bellied green "	Gecinus squamatus ...	Ditto	...	Ditto	The Himalayas	Murree ; eggs ; Simlah, 16th ; young.
171	The lesser Indian green "	" striolatus ...	Ditto	...	Ditto	The wooded parts of India proper.	Season nearly over.
172	The black-naped green "	" occipitalis ...	Ditto	...	Ditto	The Himalayas	Murree, 28th ; Sikkim ; eggs.
186	The speckled Piculet	Vivia inominata ...	Ditto	...	Ditto	Ditto	Hazara, 6th ; eggs.
191	The Marshall's Barbet	Megalasma marshallorum	Ditto	...	Ditto	Ditto	Nepal, 20th ; eggs.
192	Hodson's green "	" hodgsoni ...	Ditto	...	Ditto	The lower Himalayas	Nepal ; eggs.
193	Franklin's "	" caniceps ...	Ditto	...	Ditto	The woods of continental India.	Rohilkhand ; season ends.
194	The small "	" viridis ...	Ditto	...	Ditto	The woods of peninsular India.	Nilgiris ; do.
195	The blue-throated "	" asiatica ...	Ditto	...	Ditto	Lower Bengal and eastern Himalayas.	Calcutta ; eggs.
196	The golden-throated "	" franklini ...	Ditto	...	Ditto	The eastern Himalayas.	Nepal ; eggs.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
197	The crimson-breasted Barbet	<i>Xantholena hemacephala</i> .	None ...	In artificial holes in trees.	Throughout the plains	North India ; season ends.
199	The common Cuckoo	<i>Cuculus canorus</i> ...	(Parasitic habits.)	Eggs laid in bushes' or pipits' nests.	The Himalayas ...	Kangra, Kumaon ; eggs.
201	The hoary-headed "	" <i>poliocephalus</i>	Ditto ...	Eggs laid in warbler's nests	The western Himalayas.	Kashmir ; eggs.
204	The hill "	" <i>striatus</i> ...	Ditto ...	Eggs laid in Laughing thrushes' nest	The Himalayas ...	Kashmir ; season begins.
214	The Koil	<i>Eudynamis orientalis</i>	Ditto ...	Eggs laid in crows' nests.	Throughout the plains	Fatehgurh (N. W.P.), 27th ; eggs.
217	The common Coucal	<i>Centropus rufipennis</i> ...	Large, rough-domed	In dense thickets or thorny trees.	Throughout India proper.	Cawnpur, 27th ; eggs.
220	The Bengal Sirkeer	<i>Taccocua sirkee</i> ...	A rough shallow cup	In low thick trees or bushes.	The plains of upper India.	Chunar, 25th ; eggs.
225	The Himalayan red Honeysucker	<i>Cethopyga miles</i> ...	Pear-shaped, side entrance.	Hanging from tips of boughs.	The eastern Himalayas	Nepal ; eggs.
229	The maroon backed "	" <i>nipalensis</i>	Ditto ...	Ditto ...	The eastern Himalayas and Khasia hills ...	Nepal, Sikkim ; eggs.
231	The blackbreasted "	" <i>saturata</i> ...	Ditto ...	Ditto ...	Ditto ...	Kumaon ; eggs.
232	The amethyst-rumped "	<i>Leptocoma zeylanica</i> ...	Ditto ...	Ditto ...	Lower Bengal and peninsular India.	Calcutta, 16th, 23rd ; eggs.
234	The purple "	<i>Arachnechthra asiatica</i>	Ditto ...	Ditto ...	Throughout India ...	Saharumpur, 11th ; Kashmir 21st ; eggs.
238	Tickell's Flowerpecker	<i>Dicaeum minimum</i> ...	Ditto ...	Ditto ...	Bombay, central and N. E. India	Calcutta ; eggs.
240	The thick-billed "	<i>Piprisoma agile</i> ...	Purse-shaped, front entrance	Hanging from thin branches.	Throughout India ...	Kotegurh, Kumaon ; eggs.
241	The fire-breasted "	<i>Myzanthus ignipectus</i>	Ditto ...	Ditto ...	The eastern Himalayas	Nepal ; eggs.
243	The Himalayan Treecreeper	<i>Certhia himalayana</i> ...	A rough cup	In crevices in bark on high trees.	The western Himalayas	Kashmir ; eggs.
	Hodgson's "	" <i>hodgsoni</i> ...	Ditto ...	Ditto ...	Ditto ...	Ditto.

			Sitta himalayensis	'A shallow pad.	In natural hollows in trees.	The Himalayas	Kumaon; season ends.
248	The white-tailed Nuthatch					...	...
249	The white-cheeked "		" leucopsis	Ditto	Ditto	The western Himalayas	Kashmir; eggs.
253	The velvet-fronted "		Dendrophila frontalis	None	Ditto	The hilly regions of India.	Season nearly over.
254	The Hoopoe		Upupa epops	Ditto	In holes in trees or buildings.	The western Himalayas	Kashmir, 16th; eggs.
255	The Indian "		" nigripennis	Ditto	Ditto	Throughout India	Season nearly over.
256	The Indian grey Shrike		Lanius laitor	A thick massive cup.	In small trees or thorny bushes.	Throughout the dry plains.	Saharumpur, 1st, 30th; eggs.
257	The rufous-backed "		" erythronotus	Ditto	Ditto	Throughout India	Throughout the month.
	The pale "		" caniceps	Ditto	Ditto	The hilly regions of India.	The Nilgiris; eggs.
258	The grey-backed "		" tephronotus	Ditto	Ditto	The Himalayas	Kumaon, 23rd; eggs.
259	The black cap "		" nigriceps	Ditto	Ditto	The Himalayas and east central India.	Nepal, 17th; Sikkim, 17th; eggs.
260	The bay-backed "		" vittatus	A neat cup	Ditto	Throughout India	Aligurl, 28th; eggs.
	The Himalayan pied "		Hemipus capitalis	A small cup	On the ground under shelter.	The Himalayas.	Dehra Doon, 12th; eggs.
269	The dark grey cuckoo "		Volvocivora melaschistus	A small saucer.	In horizontal forks of trees.	Ditto	Throughout the month.
271	The large Minivet		Pericrocotus speciosus	A small deep cup.	In high trees near end of boughs.	Ditto	Dehra Doon, Nepal; eggs.
273	The short-billed "		" brevisrostris	Ditto	Ditto	Ditto	Nepal, 16th; eggs.
278	The common drongo Shrike		Dicrurus albirictus	A loose saucer.	In horizontal forks of trees.	Throughout India	Kumaon, 23rd; Meerut; 28th; eggs.
280	The long-tailed "		" longicaudatus	A neat saucer.	Ditto	The plains in moist forests.	Malabar; eggs.
281	Walden's "		" waldeni	Ditto	Ditto	The Himalayas	Throughout the month.
	The white-bellied "		" caeruleus...	A loose saucer.	Ditto	The hilly regions of India.	Kumaon (?).
282	The bronzed "		Chaptalia cenea	A broad saucer.	Ditto	In forests throughout India.	Nepal; eggs.
283	The ear tailed "		Bhringa remifer	Ditto	Ditto	The eastern Himalayas	Very little known.
284	The northern racket-tailed "		Edolus paradisiens	Ditto	Ditto	The Himalayas and eastern India.	Sikkim; eggs.
286	The hair-crested "		Chibia hottentota	Ditto	Ditto	The eastern Himalayas	Nepal, Sikkim; eggs.
287	The ashy swallow "		Artamus fuscus	Ditto	On big horizontal boughs or stumps.	Locally throughout India.	Darjeeling, 8th; eggs.
288	The paradise Flycatcher		Telitreia paradisci	A small delicate cup.	On thin branches in trees.	In all moist forests throughout India.	Dehra Doon, 26th; Murree; eggs.

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290	The black-naped azure Flycatcher	<i>Myiagra azurea</i> ...	A deep com- pact cup.	On thin branches in trees.	In all moist forests throughout India.	Season begins.
291	The white-throated Fantail	<i>Leucocerca fuscoventris</i>	A tiny in- verted cone.	Ditto	Locally in continental India.	Delhra Doon, 25th; eggs.
292	The white-browed "	" <i>aureola</i> ...	A tiny cup.	Ditto	Throughout continent- al India.	Oudh, Delhra Doon; eggs.
293	The white-spotted "	" <i>pectoralis</i> ...	A tiny in- verted cone.	Ditto	The hills of south India	The Nilgiris; eggs.
294	The yellow-bellied "	<i>Chelidorhynch hypoxantha</i> ...	A deep neat cup.	Ditto	The sub-Himalayas ...	Nepal; eggs.
295	The grey-headed Flycatcher	<i>Cryptolopha cinerocapilla</i>	A watch poc- ket.	Against moss cover- ed trunks of trees.	The Himalayas, Nil- giris, and Wynad.	Kumaon, 2nd; Nilgiris; eggs.
296	The sooty "	<i>Hemichelidon fuliginosa</i>	A compact pad.	Against mossy trees or on stumps.	The western Himalayas	Kashmir, 29th; Nepal; eggs.
300	The black and orange "	<i>Ochromela nigrorufa</i> ...	Large globu- lar-domed.	Low down in bushes or clumps.	The Nilgiris only ...	Kotagiri, 11th; eggs.
301	The verditer "	<i>Eumyias melanops</i> ...	A thick cup	In banks often un- der bridges.	The Himalayas ...	Darjeeling, 25th; Kangra; eggs.
304	The blue-throated Red-breast	<i>Cyornis rubeculoides</i> ...	Ditto ...	In holes in banks or decayed trees.	Ditto	Nepal; eggs.
305	The southern blue	<i>Cyornis banyumas</i> ...	A small thick cup.	In holes in banks or decayed trees.	Southern India ...	Mysore; eggs.
306	Tickell's blue "	" <i>tickelliae</i> ...	Ditto ...	Ditto	Central and southern India.	Kotagiri, 27th; eggs.
310	The white-browed blue Flycatcher	<i>Muscicapula superciliosa</i> .	Ditto ...	In holes or cracks in trees.	The Himalayas.	Throughout the month.
314	The fairy "	<i>Niltava sundara</i> ...	A large thick pad.	In clefts of rocks or under stumps.	Ditto	Sikkim, 19th; Nepal; eggs.
315	Macgregor's "	" <i>macgregoriae</i> ...	A large thick cup.	Ditto	The eastern Himalayas	Sikkim, 7th; Nepal; eggs.
316	The great "	" <i>grandis</i> ...	A large thick pad.	Ditto	Ditto	Sikkim, Nepal; eggs.
320	The slaty "	<i>Siphia leucomelanura</i>	A massive little cup.	At roots of trees in pine forests.	The western Himalayas	Kashmir, 29th; eggs.

321	The rufous-breasted Flycatcher	<i>Siphia supercilialis</i> ...	A deep cup	At roots of trees in pine forest.	The Himalayas	Nepal; eggs.
324	The grey robin The white-tailed robin	<i>Erythrostera parva</i> ... " <i>hyperythra</i>	(Unknown) A large deep cup.	In forks in low bushes.	Ditto	Ditto
327	The chestnut-headed Wren	<i>Tesia castaneocoronata</i>	Large globular, domed	Low down in thick bushes or clumps.	The north-west Himalayas	Kashmir; eggs.
331	The tailed hill "	<i>Panopyga caudata</i> ...	A deep thick cup,	On the ground near roots or stumps...	The eastern Himalayas	Nepal; eggs.
333	The Nepal "	<i>Troglodytes nipalensis</i>	Globular, domed.	Low down among creepers on trees.	Ditto	Ditto.
338	The white-browed Shortwing	<i>Brachypteryx cruralis</i>	Ditto	On the ground near roots or stumps...	The Himalayas	Kashmir; eggs.
339	The rufous-bellied "	<i>Callene rufiventris</i> ...	A large thick cup.	In holes in banks or trees.	The eastern Himalayas	Nepal; eggs.
343	The white-bellied "	" <i>albiventris</i> ...	A loose cup	In holes in trees.	The Nilgiris	Kotagiri, eggs; season ends.
344	The yellow-bellied whistling Thrush	<i>Myiophonus temminckii</i>	A massive saucer.	On ledges of rocks by water.	The Punjab hills.	Throughout the month
346	The Nepal ground "	<i>Hydromis nipalensis</i> ..	Large globular, domed.	In banks at foot of a bush.	The Himalayas	Kanara, 20th; Hazara, 2nd; eggs.
346	The green-breasted "	<i>Pittia cucullata</i> ...	Ditto	On the ground in bamboos or thickets.	The eastern Himalayas	Sikkim, 10th; eggs.
347	The brown-water Ouzel	<i>Hydrobata asiatica</i> ...	A large ball of moss.	In clefts of rocks near water.	Ditto	Nepal; eggs.
351	The blue-rock Thrush	<i>Petroscopsus cyaneus</i>	Cup-shaped	In holes in banks or walls.	The Himalayas only	Simla; eggs.
352	The chestnut-bellied chat Thrush	<i>Orocetes erythrogastra</i>	A neat cup	Ditto	The western Himalayas	Murree; eggs.
353	The blue-headed "	" <i>cinclorhynchus</i>	Ditto	Ditto (often at roots of trees.)	The Himalayas	Kanara, 20th; eggs.
355	The rusty-throated bush "	<i>Geocichla citrina</i> ...	A broad cup	In forks of small trees.	Ditto	Kashmir, 29th; Kumaon, 21st; eggs.
356	The dusky "	" <i>unicolor</i> ...	Ditto	In thick forks or on stumps.	Ditto	Nepal, Masuri; eggs.
358	The variable pied Blackbird	" <i>dissimilis</i> ...	Ditto	Ditto	Ditto	Kumaon, 16th, 31st; eggs.
357	Ward's pied "	<i>Turdulus wardii</i> ...	Ditto	Ditto	Ditto	Kumaon, 16th; eggs (very rare.)
360	The Nilgiri "	<i>Merula similima</i> ..	Ditto	In forks of trees or saplings.	The Nilgiris	Kumaon, 22nd; eggs.
351	The grey-winged "	" <i>boulboul</i> ...	Ditto	In thick forks of trees.	The Nilgiris	Conoor 18th; Kotagiri; eggs.
					The Himalayas	Kumaon, 30th; Sikkim, 20th; eggs.

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362	The white-collared Ouzel	<i>Merula albocincta</i> ...	A broad cup	In banks or on stumps.	The Himalayas ...	Kumaon, 20th; eggs; season ends.
363	The grey-headed "	" <i>castanea</i> ...	Ditto ...	Ditto	Ditto	Murree, Kumaon; eggs.
368	The Indian missel Thrush	<i>Turdus hodgsoni</i> ...	Ditto ...	In thick forks of trees.	Ditto	Kumaon, 16th; Kangra; eggs.
371	The small-billed mountain "	<i>Oreocincla dauma</i> ...	Ditto ...	Ditto	Ditto	Kumaon, 29th; Kashmir, 30th; eggs.
388	The Nepal quaker Thrush	<i>Aleippe nipalensis</i> ...	A deep massiv cup.	In low thick bushes	The eastern Himalayas	Nepal, Sikkim; eggs.
389	The Nilgiri "	" <i>poiocephala</i> ...	Ditto ...	In forks of thick bushes or saplings.	The hills of south India	Nilgiris; eggs.
391	The black-headed wren Babbler	<i>Stachyris nigriceps</i> ...	Ditto ...	In grassy banks near roots of shrubs.	The eastern Himalayas	Darjeeling, 14th; Nepal; eggs.
393	The red-headed "	" <i>ruficeps</i> ...	Ditto ...	In bamboo clumps chiefly.	Ditto	Nepal; eggs.
395	The yellow-breasted, "	<i>Mixornis rubricapillus</i>	Deep egg-shaped domed	Low down in dense thorny bushes.	Ditto	Tenasserim, 6th; eggs.
396	The red-capped "	<i>Timalia pileata</i> ...	Ditto ...	Ditto	Ditto (and Bengal)	Thayetmyo, 15th; eggs.
400	The rufous neck scimitar "	<i>Pomatorhinus ruficollis</i>	Large oblong; lar; domed.	On the ground in grass or weeds.	Ditto	Darjeeling, 5th; Nepal; eggs.
404	The southern "	" <i>horsfieldii</i>	Ditto ...	On the ground in a bush or tussock.	The hills south of India	Nilgiris; season ends.
405	The rusty-checked "	" <i>erythrogonys</i>	Ditto ...	Ditto	The Himalayas	Sikkim, Nepal, 20th; eggs.
406	The slender-billed "	<i>Xiphoramphus supercilialis</i> .	Ditto ...	Near the ground in grass or bushes.	The eastern Himalayas	Nepal; eggs.
407	The white-crested laughing Thrush	<i>Garrulax leucolophus</i> ...	A broad shallow cup.	In thick bushes or low trees.	The Himalayas east of Sutlej.	Nepal; season begins.
408	The grey sided "	" <i>exulatus</i> ...	A large deep cup.	In small trees or saplings.	The eastern Himalayas	Darjeeling; eggs.
410	The rufous-necked, "	" <i>ruficollis</i> ...	Ditto ...	In bushes or low trees.	Ditto	Ditto.
411	The white throated "	" <i>albogularis</i> ...	A broad shallow cup.	Ditto	The Himalayas	Kumaon, 31st; Murree, 3rd; eggs.
413	The necklaced "	" <i>moniliger</i> ...	A large deep cup.	Ditto	The eastern Himalayas	Darjeeling, 28th; eggs.

414	The white-spotted laughing Thrush	Garrulax ocellatus ...	A massive cup	In low thickets or clumps of fern.	The Eastern Himalayas	Darjeeling; eggs.
415	The red-headed "	Trochalopteron erythrocephalum	Ditto ...	In forks of trees or bushes.	The western Himalayas	Kumaon, 15th, 31st; eggs.
417	The plain-coloured "	" subunicolor	Ditto ...	Ditto	The eastern Himalayas	Nepaul; eggs.
418	The variegated "	" variegatum	Ditto ...	Ditto	The western Himalayas	Ditto.
420	The blue-winged "	" squamatum	Ditto ...	Ditto	The eastern Himalayas	Darjeeling, 10th; eggs.
421	The red-throated "	" rufogulare	Ditto ...	Ditto	Ditto	Dehra Doon; eggs.
422	The crimson-winged "	" phoeniceum	Ditto ...	Ditto	Ditto	Darjeeling, 4th, 23rd; eggs.
423	The Nilgiri "	" caccinians	Ditto ...	Ditto	The Nilgiris	Conoor; eggs.
425	The streaked "	" lineatum	Cup-shaped	In low bushes or holes in banks.	The Himalayas	Throughout the month.
426	The bristly "	" imbricatum	Ditto ...	Ditto	The eastern Himalayas	Nepal; eggs.
428	The hoary Barwing	Actinodura nipalensis	A shallow cup	In holes in banks or rocks.	Ditto	Ditto.
429	The black-headed Sibia	Sibia capistrata	A neat deep cup.	In outer twigs of trees or bushes.	The Himalayas	Nest building begins.
432	The Bengal Babbler	Malacocercus canorus	A loose straggling cup.	In thick bushes or small trees.	The plains of continental India.	Throughout the month.
433	The white-headed "	" griseus	Ditto ...	In thorny hedges or low trees	The plains of south India.	Madras; eggs.
434	The jungle "	" malabaricus.	Ditto ...	In trees or thick thorny bushes.	The hills of south India.	Nilgiris; eggs.
435	The rufous-tailed "	" somervillii.	Ditto ...	Ditto	The western Ghats	Bombay; eggs.
436	The large grey "	" malcolmi	Cup-shaped	In thorny trees or bushes.	Throughout the plains	Nilgiris; season ends.
438	The striated bush "	Chattarhoa caudata	Ditto ...	In low bushes or clumps of grass.	Ditto	Aligurh, 10th; eggs.
440	The striated marsh "	Megalurus palustris	Deep egg-shaped domed	In clumps of grass or reeds.	Eastern Bengal and Central Provinces.	Hoshungabad, 4th; Calcutta, 7th; eggs.
444	The Himalayan black Bulbul	Hypsepetes psaroides	A neat cup	In forks of bushes or trees.	The Himalayas	Throughout the month.
445	The Nilgiri "	" nilgiriensis	A rough shallow cup.	In dense bushes or clumps.	The Nilgiris	Conoor; eggs.
447	The rufous-bellied "	" maclellandii	A neat shallow saucer.	Suspended from a leafy fork.	The eastern Himalayas	Nepal; eggs.

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450	The yellow-browed bush Bulbul	<i>Crimiger ictericus</i> ...	A small shallow cup.	Suspended from a leafy fork	The hills of south India.	The Nilgiris; eggs.
456	The black-crested yellow "	<i>Rubicula flaviventris</i> ...	A neat cup.	In bushes or thickets	The eastern Himalayas	Darjeeling, 16th; eggs.
458	The white-checked crested "	<i>Otocornis leucogenys</i>	Ditto ...	In bushes or low trees.	The Himalayas ...	Hazara, 7th; Kumaon, 13th; eggs.
459	The white-eared "	" <i>leucotis</i>	Ditto ...	In dense thorny bushes.	Western continental India.	Rajputana; eggs.
460	The red-whiskered "	" <i>emeria</i>	Ditto ...	In thick bushes or creepers.	The moist parts of upper India.	Season nearly over.
	The southern red-whiskered "	" <i>fuscicaudata</i>	Ditto ...	In isolated bushes...	The hills of south India.	Ditto.
461	The common Bengal "	<i>Pycnonotus pygæus</i> ...	A small slender cup.	In small trees or bushes.	The Himalayas and eastern Bengal.	Kumaon, 23rd; Sikkim; eggs.
462	The common Madras "	" <i>pusillus</i> ...	Ditto ...	Ditto ...	Throughout the plains	The Punjab; eggs.
468	The white-winged green "	<i>Iora typica</i> ...	A tiny cup...	In trees near leafy tips of boughs.	Locally throughout India.	Setapur, Oudh, 13th; eggs.
470	The Indian golden Oriole	<i>Oriolus kundoo</i> ...	A neat deep cup.	In high trees hung from outer forks.	Throughout India ...	Nest building begins.
472	The black-headed "	" <i>melanocephalus</i>	Ditto ...	Ditto ...	Locally in continental India.	Allahabad, Bengal; eggs.
475	The magpie Robin	<i>Copsychus saularis</i> ...	A shallow saucer.	In holes in trees or walls.	Throughout India ...	Throughout the month.
476	The Shama	<i>Kittacincta macroura</i>	Ditto ...	In holes in decayed trees.	Peninsular and eastern India.	Tenasserim, 5th; eggs.
477	The white-tailed Bluechat	<i>Myiomela leucura</i> ...	A deep massive cup.	On rocks under bushes or grass.	The eastern Himalayas	Darjeeling, 14th; eggs.
479	The southern brown-backed Robin.	<i>Thamnobia fulicata</i> ...	A small cup	On the ground sheltered or in holes.	South India ...	Ahmednagar, 25th; eggs.
480	The brown-backed "	" <i>cambaiensis</i>	Ditto ...	Ditto ...	The plains of upper India.	Throughout the month.
481	The black Bushchat	<i>Pratincola caprata</i> ...	A shallow pad.	On the ground under shelter.	The Himalayas and continental India.	Dehra Doon, Bombay; eggs.
482	The southern black "	" <i>atrata</i> ...	Ditto ...	In holes in banks or wall.	The hills of south India.	Nilgiris; season ends.

483	The common Indian Bushchat	<i>Pratincola indica</i> ...	A small cup.	The holes in banks or walls.	The Himalayas and N. W. Punjab.	Throughout the month.
486	The iron grey "	" <i>ferrea</i> ...	Ditto ...	Ditto ...	The Himalayas ...	Ditto.
494	The brown Rockchat	<i>Cercomela fusca</i> ...	A shallow pad.	Ditto	The dry parts of continental India.	Saugor; eggs.
505	The plumbous water Robin	<i>Eutaecia fuliginosa</i> ...	A small cup.	In niches of rocks near water.	The Himalayas ...	Kangra, Masuri; eggs.
506	The white-capped Redstart	<i>Chamorroornis leucocephala</i> ...	Ditto ...	In holes in perpendicular banks.	The alpine Himalayas	Kumaon throughout; the month.
508	The white-breasted blue Wood chat.	<i>Ianthia ruflata</i> ...	Ditto ...	In banks or under fallen trees.	The western Himalayas	Kashmir, 30th; eggs.
515	The large reed Warbler	<i>Acrocephalus brunneus</i> ...	A very deep cup.	Among reeds growing in water.	Ditto ...	Kashmir; eggs.
516	The lesser "	<i>Acrocephalus dumetorum</i> ...	Globular-domed.	In thick bushes or brambles.	The Himalayas ...	Masuri, 6th; Kumaon; eggs.
530	The pale hill "	<i>Horeites pallidus</i> ...	Large globular-domed.	In tangled brush-wood.	The western Himalayas	Kashmir, 25th; eggs.
534	The Indian Tailor-bird	<i>Orthotomus longicauda</i> ...	A deep cup	In low bushes or creepers.	Throughout India ...	Darjeeling, 16th; eggs.
547	The ashy wren Warbler	<i>Prinia socialis</i> ...	A cup sewn in leaves.	Hanging in low bushes.	Southern India ...	Nilgiris; eggs.
548	The fuscous "	<i>Drynoipus fuscus</i> ...	Deep neat; domed.	In small bushes or clumps.	The Terai, Decan; and Nilgiris.	Ditto; ditto.
549	The brown hill "	<i>Suya criniger</i> ...	Deep flimsy domed.	In low bushes on hill-sides.	The Himalayas ...	Kangra, 15th; Kumaon; eggs.
551	The dusky "	" <i>fuliginosa</i> ...	Deep neat domed.	In low bushes on hill sides.	The eastern Himalayas	Kumaon, 19th; eggs.
552	The black-throated "	" <i>atroregularis</i> ...	Ditto ...	In small bushes or clumps.	Ditto ...	Nepal, Sikkim; eggs.
553	The rufous-fronted wren	<i>Franklinia buehanani</i> ...	Deep ragged often domed.	In low bushes or scrub.	Western continental India	Season commences.
554	The aberrant tree "	<i>Neornis flavivacea</i> ...	A neat shallow cup.	In bushes or low trees.	The eastern Himalayas	Nepal, 29th; eggs.
555	Blythe's aberrant " Tytler's "	" <i>assimilis</i> ... <i>Phylloscopus tytleri</i> ...	Ditto ... A deep, thick cup.	Ditto ... At tips of upper boughs of firs.	Ditto ... The western Himalayas	Darjeeling, 18th; eggs. Kashmir, 30th; eggs.
556	The large crowned "	<i>Reguloides occipitalis</i> ...	A loose cup	In holes in decayed stumps or banks.	Ditto ...	Murree, 10th; eggs.
557	The crowned "	" <i>superciliatus</i> ...	Large rough globular.	On the ground on mossy banks.	Ditto ...	Kashmir, 31st; eggs.

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566	The Dalmatian Warbler	Reguloides proregulus	Nest compact domed.	At tips of boughs of firs or pines.	The western Himalayas	Kashmir; eggs.
570	The lesser black-browed "	Culicpeeta cantator ...	A watch pocket(?)	Hung from tips of boughs.	The eastern Himalayas	Sikkim; eggs (d)
571	The black-eared "	Abornis schisticeps	Globular domed	In holes in mossy banks.	The Himalayas ..	Masuri; eggs.
573	The grey faced "	" chloronotus ..	Pear-shaped (?)	Hanging from twigs in bushes.	The eastern Himalayas	(Requires confirmation)
573	The white-browed "	" albosuperciliaris.	Globular domed.	On the ground in moss or bushes.	The Himalayas ..	Season ends.
580	The chesnut-headed "	" castaneiceps ..	Ditto ...	Ditto ...	The eastern Himalayas	Nepal; eggs.
580	The Indian golden crested Wren	Regulus himalayensis	A deep pouch	Hung from twigs in fir trees.	The Himalayas ..	Sutlej valley; eggs.
582	The Indian White-throat	Sylvia affinis ..	A shallow cup	In low bushes or thickets.	The western Himalayas	Kashmir, 27th; eggs.
584	The western spotted fork-tail	Henicurus maculatus	A massive cup	On banks or rocks by water.	Ditto ...	Dehra, 12th; Kangra; eggs.
586	The slaty-backed "	" schistaceus	Ditto ...	Ditto ...	The eastern Himalayas	Darjeeling, 4th; eggs.
587	The little "	" scouleri ...	Ditto ...	Ditto ...	Ditto ...	Kumaon; eggs.
589	The eastern spotted "	" guttatus ...	Ditto ...	Ditto ...	Ditto ...	Darjeeling; eggs.
589	The Indian pied Wagtail	Motacilla maderaspatana	A shallow pad	On the ground or buildings by water	Throughout the plains	Fatehgarh, Sambhur; eggs.
590	The white-faced "	" luzionensis ...	Ditto ...	Under stones or snags by rivers.	The western Himalayas	Kashmir; eggs.
592	The grey and yellow "	" melanope ...	Ditto ...	Ditto ...	Ditto ...	Kashmir, 25th; eggs.
592	The black-backed yellow-headed "	Budytes calcaratus ...	Ditto ...	On the ground under stones or rocks.	Ditto ...	Kashmir, 18th; eggs.
596	The Indian Pipit	Anthus arboreus ...	A shallow cup	On the ground on grassy slopes.	The alpine Himalayas	Kooloo; eggs.
597	The tree "	" maculatus ...	Ditto ...	Ditto ...	Ditto ...	Kotegurh, Kumaon; eggs.
598	The Nilgiri "	" montanus ...	Ditto ...	On the ground under a tussock.	The Nilgiris	Nidivatum; eggs.
605	The ruddy "	" rosaceus ...	Ditto ...	Ditto ...	The Alpine Himalayas	Gurhwal, 27th; eggs.
600	The Indian Titlark	Corydalla rufula ...	Ditto ...	Ditto ...	Throughout India proper.	Caleutta, 2nd, 17th; eggs.

607	The Nilgiri Tiddark	Agrodroma cinamomea	A shallow saucer.	On the ground under clod or tuft.	The Nilgiris	Kotagiri, 16th; eggs.
606	The brown rock Pipit	" griseorufes cens.	Ditto	Ditto	The western Himalayas	Muree; eggs.
603	The upland "	Heterura sylvana	Ditto	Ditto	The Himalayas from Nepal west.	Nepal, 4th; eggs.
608	The purple thrush Tit	Cochoa purpurea	A large deep cup.	In small trees or bushes.	The eastern Himalayas	Kumaon; eggs.
604	The green "	" viridis	Ditto	Ditto	Ditto	Sikkim; eggs.
609	The red-winged shrike Tit	Pteruthius erythropterus.	A rather deep cup.	Attops of high trees	The western Himalayas	Muree, 30th; eggs.
614	The red-billed hill "	Leothrix luteus	A substantial cup.	In thick bushes	The eastern Himalayas	Darjeeling; eggs.
615	The silver-eared "	" argentarius.	Ditto	Ditto	Ditto	Nepal; eggs.
616	The stripe-throated "	Siva strigula	Ditto	In slender forks of small trees.	Ditto	Nepal, 27th; eggs.
617	The blue-winged "	" cyanouroptera	Ditto	Ditto	Ditto	Nepal, 25th; eggs.
618	The red-tailed "	Minla ignotincta	Ditto	Ditto	Ditto	Nepal, 25th; eggs.
619	The chesnut-headed "	" castaneiceps	A broad shallow cup.	In forks in thick bushes.	Ditto	Sikkim, 18th; eggs.
622	The yellow-naped "	Ixulus flavicollis	Egg-shaped domed	On the ground in tufts of grass.	Ditto	Kumaon, 1st; Sikkim, 14th; eggs.
623	The rusty-headed "	" occipitalis	A shallow cup	In forks in small trees.	Ditto	Sikkim, 30th; eggs.
626	The stripe-throated crested "	Yuhina gularis	Large globular domed.	Wedged in forks of trees or rocks.	Ditto	Nepal; eggs.
628	The black chimned "	" nigrimentum	A neat shallow cup.	On thick forks of large trees.	Ditto	Sikkim; eggs.
629	The fire-tailed "	Myzornis pyrrhura	Ditto	Ditto	Ditto	Ditto, do.
631	The Indian white-eyed "	Zosterops palpebrosus	A tiny regular cup.	Hung from twigs in trees or bushes.	Throughout India	Kumaon, 1st; Conoor; eggs.
633	The fire-cap "	Cephalopyrus flammiceps.	A deep thick cup.	In holes in decayed trees.	The western Himalayas	Muree, 10th; eggs.
634	The red-capped "	Egithaliscus erythrocephalus.	Deep compact domed.	Wedged in forks of stunted trees.	The Himalayas	Kumaon, 10th, 30th; Muree; eggs.
638	The crested black "	Lophophanes melanolophus.	A shallow pad	In holes in walls or trees.	Ditto	Muree, 29th; Kashmir; eggs.
644	The mountain "	Parus monticolus	A rough mass of feathers.	Ditto	Ditto	Sikkim, 14th; Kangra; eggs.
645	The Indian grey "	" cinereus	A shallow pad	Ditto	In all wooded hilly tracts.	Kashmir, 27th; Conoor, 15th; eggs.

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647	The yellow-cheeked Tit	<i>Maculophus xanthogenys</i> .	A shallow pad	In holes in walls or trees.	The western Himalayas	Kangra; eggs.
654	The rufous-breasted Accentor	<i>Accentor strophilatus</i> ...	A deep cup	On the ground in tufts of grass.	The eastern Himalayas	Nepal season begins.
	Jerdon's "	" <i>jerdoni</i> ...	Ditto ...	On lower boughs of pine trees	The western Himalayas	Kashmir; eggs.
659	The Indian carrion Crow	<i>Corvus corone</i> ...	A large compact cup.	High up in forks of trees.	Ditto ...	Kashmir, 30th; eggs.
660	The bow-billed Corby	" <i>culminatus</i> ...	Ditto ...	Ditto ...	Throughout India per.	Nilgiris, Bareilly, 10th; eggs.
661	The Himalayan "	" <i>intermedius</i> ...	Ditto ...	Ditto ...	The Himalayas ...	Hazara; eggs.
663	The common Crow	" <i>impudicus</i> ...	Ditto ...	Ditto ...	Throughout India per.	South India; eggs.
665	The Jackdaw	" <i>monedula</i> ...	A small platform.	In holes in buildings or trees.	The western Himalayas	Kashmir, 30th; eggs.
669	The Himalayan Jay	<i>Garrulus bispecularis</i> ...	A neat compact cup.	On thick boughs of large trees.	The Himalayas ...	Murree, 6th; Kumaon, 22nd; eggs.
670	The black-throated "	" <i>lanceolatus</i> ...	A loose shallow cup.	In small trees or saplings.	Himalayas from Nepal west.	Kashmir, 30th; Kumaon, 31st; eggs.
671	The red-billed blue "	<i>Urocissa occipitalis</i> ...	Ditto ...	In trees usually small ones.	Himalayas, Nepal to Suttej.	Masuri; eggs.
672	The yellow-billed blue "	" <i>flavirostris</i> ...	Ditto ...	Ditto ...	Extreme west and east Himalaya.	Murree, 10th; Sikkim; eggs.
673	The green "	<i>Oissa venatoria</i> ...	Ditto ...	In trees or bamboo clumps.	The eastern Himalayas	Nepal, Sikkim; eggs.
674	The Indian Treepie	<i>Dendrocitta rufa</i> ...	Ditto ...	In trees near the top.	Throughout continental India.	Cawnpur, 24th; Meerut, 26th; eggs.
676	The Himalayan "	" <i>himalayensis</i>	Ditto ...	In small trees or bushes.	The Himalayas ...	Sikkim, 14th; Masuri; eggs.
682	The bright Starling	<i>Sturnus nitens</i> ...	None ...	In holes in trees or buildings.	The north-west Punjab	Kashmir, 30th; Peshawar, 1st; eggs.
683	The pied Mynah	<i>Sturnopaster contra</i> ...	Large globular domed	In trees at ends of boughs.	Continental India ...	Saharampur, 29th; eggs.
684	The common "	<i>Acridotheres tristis</i> ...	None ...	In holes in trees or buildings.	Throughout India ...	Alighurh, 20th; eggs.

685	The bank Mynah	Acridotheres ginginianus	None	...	In deep holes in banks or walls.	The plains of upper India.	Etawah ; eggs.
686	The jungle "	" fuscus	Ditto	...	In holes in trees or buildings.	In all wooded hilly tracts.	Himalayas ; season begins.
687	The brahminy "	Temenuchus pagodarum	Ditto	...	In holes in decayed trees.	Throughout India proper.	Aligurh, 28th ; Oudh, 25th ; eggs.
688	The grey-headed "	" malabaricus	Ditto	...	Ditto	The eastern Himalayas	Sikkim ; eggs.
691	The spotted-winged Stare	Saraglossa spiloptera...	Ditto	...	Ditto	The western "	Kumaon, Masuri eggs.
692	The southern hill Mynah	Eulabes religiosa	Ditto	...	Ditto	Southern India "	Travancore, 22nd ; eggs.
694	The common Weaver Bird	Ploceus baya	A pendent tort.	...	Hung from tips of boughs of trees.	Throughout India proper.	South India ; eggs.
699	The spotted Munia	Munia undulata	Large oval domed.	...	Usually in thick thorny bushes.	In all moist wooded tracts.	The Nilgiris ; eggs.
703	The pin-tailed "	" malabarica	Ditto	...	In small trees or shrubs.	Throughout India proper	The Punjab ; eggs.
704	The Indian Amadavat	Estrela amandava	Ditto	...	In thick bushes near water.	Ditto (but locally)	The Nilgiris ; eggs.
705	The green "	" formosa	Ditto	...	On stalks of sugarcane	Central India	Saugor ; eggs.
706	The Indian house Sparrow	Passer indicus	A globular mass.	...	In and about houses	Throughout India	North India ; eggs.
708	The cinnamon-headed "	" cinnamomeus	Ditto	...	In holes in trees or buildings.	The Himalayas	Kumaon, 19th ; Kangra ; eggs.
710	The tree "	" montanus	Ditto	...	Ditto	The eastern Himalayas	Sikkim, 18th ; eggs.
711	The yellow-throated "	" flavicollis	Ditto	...	In holes in decayed trees.	Generally throughout India.	Oudh, 4th ; Bareilly ; eggs.
713	The meadow Bunting	Emberiza cia	A shallow cup	...	On the ground under shelter.	The western Himalayas	Simla ; eggs.
719	The grey-headed "	" fucata	Ditto	...	Ditto	Ditto	Ditto ditto.
724	The crested black and chesnut "	Melophus melanicterus	A neat shallow cup.	...	In holes in banks or walls.	Locally in continental India.	Sikkim, Kumaon ; eggs.
725	The black and yellow Grosbeak	Hesperiphona icteroides.	Cup-shaped.	...	High up in trees (often pines).	The western Himalayas	Murree, 28th ; eggs.
756	The red-winged bush Lark	Mirafra erythroptera...	A shallow pad	...	On the ground by tufts of grass.	The dry plains of upper India.	Aligurh, 22nd ; eggs.
759	The desert finch "	Ammonanus luscitanica	Ditto	...	On the ground by rocks or stones.	The western Punjab	Nowshera ; eggs.
760	The black-bellied "	Pyrraula grisea	A tiny shallow pad.	...	On the ground by clod or tussock.	Throughout the plains	Aligurh, 6th ; Oudh, 4th ; eggs.
762	The eastern sand "	Alauda raytal	A tiny saucer	...	Ditto	Beds of rivers east of Jumna.	Hoshungabad, 6th ; eggs.
	The Punjab "	" adamsi	Ditto	...	Ditto	Ditto west of Jumna	Jhelum ; eggs.

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766	The Himalayan sky Lark	<i>Alauda dulcivox</i> ...	A shallow saucer.	On the ground on grassy slopes.	The western Himalayas	Kashmir, 22nd; eggs.
767	The Indian " "	" <i>gulgula</i> ...	Ditto ...	On the ground by tuft or bush.	The plains of upper India.	Saharanpur, 20th; eggs.
	The Nilgiri " "	" <i>australis</i> ...	Ditto ...	Ditto ...	The hills of south India	The Nilgiris eggs.
769	The common crested "	<i>Galerita cristata</i> ...	Ditto ...	Ditto ...	The dry plains of upper India.	Saharanpur, 23rd; eggs.
772	The lesser " "	" <i>boysii</i> ...	Ditto ...	Ditto ...	Ditto ...	Salt range; eggs.
	The Bengal green Pigeon	<i>Crocopus phoenicopterus</i> .	A small platform.	On outer forks of large trees.	Bengal and sub-Himalayas to Jumna.	Saharanpur, 16th; eggs.
773	The southern " "	" <i>chlorogastera</i> ...	Ditto ...	In small trees or bushes,	Throughout the plains (except Bengal).	Aligarh, 4th; eggs.
778	The kokia " "	<i>Sphenocercus sphenurus</i>	Ditto ...	On outer boughs of trees.	Throughout the Himalayas	Kumaon; eggs.
781	The bronze-backed imperial "	<i>Carpophaga insignis</i> ...	Ditto ...	Ditto ...	The eastern Himalayas	Nepal; eggs.
784	The Himalayan wood "	<i>Palumbus casiotis</i> ...	Ditto ...	In small trees or thorny bushes.	The western Himalayas	Hazara, 25th; eggs.
788	The Indian blue rock "	<i>Columba intermedia</i> ...	Ditto ...	On ledges of buildings chiefly.	Throughout India proper.	Meerut; eggs.
791	The bar-tailed tree Dove	<i>Macropygia tusaha</i> ...	A tiny platform.	In outer forks of low trees.	The eastern Himalayas	Nepal, 20th; eggs.
792	Hodgson's turtle "	<i>Turtur pulchra</i> ...	Ditto ...	On outer boughs of big trees.	Throughout the Himalayas.	Kashmir; Kumaon, 28th; eggs.
794	The brown " "	" <i>cambaiensis</i> ...	Ditto ...	In low trees or bushes.	Throughout the plains	Throughout the month.
795	The spotted " "	" <i>suratensis</i> ...	Ditto ...	Ditto ...	Throughout the wooded tracts.	Ditto.
796	The Indian ring "	" <i>risorius</i> ...	Ditto ...	Ditto ...	Throughout the plains	Aligarh, 6th; Kumaon, eggs.
797	The ruddy " "	" <i>humilis</i> ...	Ditto ...	Ditto ...	Ditto (but locally)	Throughout the month.
798	The emerald "	<i>Chalcophaps indicus</i> ...	A shallow saucer.	In thick bushes or low trees.	In all densely wooded parts.	Kumaon; Masuri; eggs.
800	The painted Sandgrouse	<i>Pterocles fasciatus</i> ...	None ...	On the ground by tiny bush.	The rocky parts of upper India.	Sambhur, 4th; eggs.

802	The common Sandprouse	<i>Pterocles exustus</i> ...	None	On the bare open ground.	The sandy plains of upper India.	Throughout the month.
804	The Moonal	<i>Lophophorus impeyanus</i> .	A few dry leaves.	On the ground in thick cover.	The Himalayas only ...	Kumaon, Kangra; eggs.
805	The red Argus	<i>Cerionus satyra</i> ...	Ditto	Ditto in forests	The eastern Himalayas	Kumaon; eggs.
806	The black-headed "	" <i>melanocephala</i> ...	Ditto	Ditto ditto ...	The western Himalayas	Hazara, 25th; eggs.
808	The Koklass	<i>Pucrasia macrolopha</i>	Ditto	Ditto ditto ...	The Himalayas ...	Kumaon; eggs.
809	The Cheer	<i>Phasianus wallichi</i> ...	Ditto	Ditto in grass or bushes.	Ditto	Masuri, Simla; eggs.
810	The white-crested kalij Pheasant	<i>Gallophasian albocristatus</i>	A shallow pad	Ditto in thick cover.	Ditto	Kumaon, Kangra; eggs.
811	The black-backed "	" <i>melanotus</i>	Ditto	Ditto ditto ...	The eastern Himalayas	Sikkim; eggs.
812	The red jungle Fowl	<i>Gallus ferruginus</i> ...	A few dry leaves.	Ditto in dense thickets.	Sub-Himalayas, C. P and Madras	Sewaliks, Pegu; eggs.
813	The grey "	" <i>sonneratii</i> ...	Ditto	Ditto ditto ...	Hills of south and central India.	Conoor, Mr. Aboo; eggs.
814	The red spur "	<i>Galloperdix spadiceus</i>	Ditto	Ditto ditto ...	South India to Bundelkund.	Nilgiris, Mr. Aboo; eggs.
815	The painted "	" <i>lumlosus</i>	Ditto	Ditto ditto ...	Eastern peninsular India.	Raipur, season ends.
816	The snow Pheasant	<i>Tetrao gallus himalayensis</i> .	Ditto	Ditto by rock or tuft.	The alpine Himalayas	Gangotri; eggs.
817	The snow Partridge	<i>Lerwa nivicola</i> ...	Ditto	Unknown probably among rocks.	Ditto	Gangotri.
818	The black "	<i>Francolinus vulgaris</i>	Ditto	On the ground in grass or crops.	Throughout upper India.	Throughout the month.
820	The Chukor	<i>Caccabis chukor</i> ...	Ditto	Ditto on grassy slopes.	Himalayas and Salt range.	Kashmir, 20th; Salt-range; eggs.
821	The Seesee	<i>Ammoderix bonhami</i>	Ditto	Ditto by stone or bush.	Salt range and trans Indus hills	Nowshera, Salt range; eggs.
822	The grey Partridge	<i>Ortygornis ponticerriana</i>	Ditto	Ditto in bush or tuft.	Open plains of India proper.	Saharunpur, 17th; eggs.
823	The kyah "	" <i>gularis</i> ...	Ditto	Ditto ditto ...	The eastern Sub-Himalayas.	Nepal, Tarai; eggs.
833	The Himalayan bustard Quail	<i>Turnix plumbeipes</i> ...	Ditto	Ditto ditto ...	The outer Himalayas ...	Sikkim; eggs.
836	The Indian Bustard	<i>Eupodotis edwardsii</i> ...	None	On the ground in scanty grass.	The dry parts of continental India.	Sirsa, 19th; eggs.
840	The Indian courier Plover	<i>Cursorius coromandalicus</i> .	Ditto	Do. in fallow land	All dry plains except the Punjab.	Cawnpoor; Decan; eggs.
846	The cream coloured "	" <i>gallicus</i> ...	Ditto	Ditto ditto	Sirsa 8th; eggs.	Sirsa 8th; eggs.
	The greater shore "	<i>Egialites leschenaulti</i>	Ditto	On the sand near water.	The Punjab only ...	Season ends.
					The Tibetan lakes ...	

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847	Pallas's shore Plover	<i>Egialites mongolicus</i>	None	On the sand near water.	The Tibetan lakes	Season ends.
849	The ringed "	" <i>curonicus</i>	Ditto	On bare sandy islands in rivers.	Throughout India	Kashmir, 14th; eggs.
855	The red-wattled "	<i>Lobivanellus goensis</i>	Ditto	On the ground on raised spots.	Ditto	Saharunpur, 3rd, 31st; eggs. Nilgiris; eggs.
856	The yellow-wattled "	<i>Sarciphorus bilobus</i>	Ditto	Do. in fallow land	In dry parts throughout India	Chunar, Raipur; eggs.
858	The great Indian stone "	<i>Esacus recurvirostris</i>	Ditto	On the bare sand on river islands	Throughout India proper.	Punjab; season ends.
859	The "	<i>Edicnemus crepitans</i>	Ditto	On the ground by bushes or trees.	Ditto (but locally).	Saharunpur, 14th; eggs.
867	The Woodcock	<i>Scotopax rusticola</i>	A little grass	Ditto	The Himalayas	Kumaon; eggs.
893	The common Sandpiper	<i>Actitis hypoleucos</i>	None	Ditto	The western Himalayas	Kashmir, 23rd; eggs.
898	The Silt	<i>Himantopus candidus</i>	Ditto	On the ground in salt-works.	Near Delhi and Gurgaon.	Throughout the month.
903	The common Coot	<i>Fulica atra</i>	A large mass of weeds.	In rice or rushes in water.	Throughout India	Kashmir; eggs.
905	The water Hen	<i>Gallinula chloropus</i>	Ditto	Ditto (or on drooping boughs).	Ditto	Ditto; ditto.
908	The brown Rail	<i>Porzana akool</i>	A small platform	In high grass or reeds in water.	Central and upper India.	Saugor, 27th; eggs.
924	The purple Heron	<i>Ardea purpurea</i>	A loose platform.	In thick beds of reeds.	Throughout India proper.	Saugor; eggs.
933	The chesnut Bittern	<i>Ardetta cinnamomea</i>	Ditto	In reeds or cane brakes in water.	Continental India	Tippurah, Kashmir; eggs.
937	The night Heron	<i>Nycticorax griseus</i>	Ditto	In high trees (or in reeds).	Throughout India	Kashmir, 18th; eggs.
943	The king Curlew	<i>Geronticus papillosus</i>	Ditto	High up in large trees.	Throughout the plains	Hansi; eggs.
949	The bar-headed Goose	<i>Anser indicus</i>	None	Unknown	The Tibetan lakes	Season ends.
954	The brahminy Duck	<i>Casarca rutila</i>	Ditto	In holes in cliffs	The upper Himalayas	Ditto.
958	The Mallard	<i>Anas boschas</i>	A shallow pad	In rushes by or in water.	The western Himalayas	Kashmir; eggs.
969	The white-eyed Duck	<i>Aythya nyroca</i>	Ditto	Ditto	Ditto	Ditto.

974	The crested Grebe	Podiceps cristatus ...	A large mass of weeds.	Among reeds or rushes in water.	The western Himalayas	Kashmir; eggs.
975	The little "	" philippensis...	Ditto ...	Ditto ...	Throughout India ...	Kashmir, Nilgiris; eggs.
983	The gull-billed Tern	Gelochelidon anglicus	None ...	On the sand on river islands	The western Punjab ...	Wazeerabad; eggs.
991	The black-naped Ternlet	Onochoprion melanau- chen.	Ditto ...	On bare rocky is- lands.	The Andamans and Nicobars.	Season begins.
1005	The common Cormorant	Graculus carbo ...	A loose plat- form.	On rocks by rivers (or trees).	Upper India locally ...	(Requires confirmation.)

JUNE.

THE breeding season is now just past its height. In all parts of the country the shrikes, the paradise flycatcher, the common bulbuls, weaver birds and sparrows, the black-bellied finch lark, doves, the common sandgrouse, and the little grebe are breeding everywhere; and throughout the plains the *purple coot* and *waterhens* are pairing and building.

In the HIMALAYAS, a few of the hawks and one of the swallows are still laying. The goatsuckers, bee eater, and roller all have eggs. Also the little kingfishers and broadbills in the low valleys. The Marshall's barbet begins to lay. All the cuckoos and honeysuckers have eggs, and in the far west nuthatches' and tree creepers' eggs may still be found. Most of the minivets, drongos, flycatchers, wrens, thrushes of all kinds, blackbirds, most of the babblers, laughing thrushes, bulbuls, orioles, robins, chats, reed warblers, hill warblers, tree warblers (except the *abornis* group, which are early breeders), white throats, forktails, wagtails, pipits, all the hill tits (*Leiotrichinae*), the carrion crow, the jays and magpies, the mynahs, munias, sparrows, buntings, skylark, pigeons, doves, a few of the pheasants, partridges, grouse and quail (these latter only at the higher elevations), sandpipers, coots, rails, bittern, and some ducks are laying throughout the month. Towards the end of it the *red-winged wall creeper*, *striated jay thrush*, *white-throated bulbul*, *fulvous-breasted* and *large hill warblers*, *tree sparrows*, most of the *finches*, and the *ruddy rail* are pairing and building. The "sacfa" or *Hodgson's partridge* also pairs at the end of this month, in the alpine Himalayas.

In the PUNJAB, the crested honey buzzard, and possibly also some of the eagles and kites have eggs. All the bee eaters are laying. The roller, white-breasted kingfisher, koel, congal, sirkeer, the white-eared bulbul, golden oriole, treepie, mynahs, bush larks, finch larks, black partridge, bustard, plovers, stilts, white-necked storks, and king curlew are all breeding. While the *egrets*, *pond herons*, *cattle herons*, *bitterns*, *night herons*, and *spoonbills* are beginning to pair and build.

In the NORTH-WEST PROVINCES, the true eagles, buzzards, kites, and screech owl, are still breeding. The mosque swallow has eggs also. The goatsuckers and rollers, the little kingfisher, the common gold



MARSHALL, DEL.

NEST OF THE WHITE-BROWED WARBLER.

Abroonitis albocapitata.

back woodpecker (second brood), the koel and concal, the purple honey-sucker, the drongo shrike, white-browed fantail, yellow-eyed babbler, rufous-bellied wren babbler, the Bengal and large grey babblers, the bulbuls, and orioles are breeding. Eggs of the brown-backed robin may still be found. Stewart's wren warbler has begun to lay, so has the earth brown wren warbler and the Indian white-eyed tit and the common crow. The treepie, mynahs, black and chestnut bunting, bush larks, green pigeons, partridges, plovers, white-necked storks, shell ibis, white ibis, black-backed geese, and whistling teal all have eggs during the month. While towards the end of it the *grey-capped wren warbler*, *pheasant-tailed jacana*, *egrets*, *pond herons*, *cattle herons*, some *bitterns*, *night herons*, *spoonbills*, *cotton teal*, and *snake birds* commence to pair and build.

In BENGAL, the palm swifts, crested swifts, white-breasted kingfisher, broad-billed rollers, lesser concals, Tickell's flowerpecker, babblers, common bulbuls, common wren warblers, bush larks, florikin, sarus cranes, little pond heron, bitterns, black-backed geese, whistling teal, and pink-headed ducks have eggs. Besides, many other species which breed at this time in the North-West Provinces and Central India. At the end of the month, the *blue-breasted quail*, *bronze-winged jacana*, *watercock*, *ruddy rail*, and *great heron* begin to pair and build.

In CENTRAL INDIA, the shikra, the dusky crag martin, most of the nightjars, cuckoo shrikes, small minivets, blue redbreasts, rufous-bellied wren babblers, black-headed orioles, robins, chats, Hodgson's wren warbler, rufous-fronted wren warbler, treepies, brahminy mynahs, bush larks, crown crest larks, plovers, brown rails, herons, and white ibis are the characteristic birds that breed. While *Jerdon's green bulbul*, the *black-backed green bulbul*, the *allied wren warbler*, the *Indian titlark*, the *green amadavat*, the *bronze-winged jacana*, the *white-breasted waterhen*, the *egrets*, *pond herons*, *cattle herons*, and *bitterns* begin pairing and building at the close of the month.

In SOUTHERN INDIA, the lesser kestrel is breeding in the Nilgiris. Also the house swallow and the hill swiftlet, the orange minivet, the white-bellied drongo, the black-naped azure flycatcher, the white-spotted fantail, the blue redbreast, the yellow-eyed babbler, quaker thrushes, white-throated wren babbler, laughing thrush, rufous-tailed and jungle babblers, most of the bulbuls, the ashy and fuscous wren warblers, the rufous grass warbler, the Indian amadavat, the sky lark, the woodpigeon, the peafowl, the red spur fowl, and courier plovers have

eggs wherever the birds are found, and the *rufous-bellied munia* is building at the end of the month.

The sea terns and gulls lay throughout this month on the rocky islands in the bay of Bengal, Indian ocean, Red sea, and Persian gulf.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
17	The Kestrel	<i>Tinnunculus alaudarius</i>	A large platform.	On ledges of cliffs	The Himalayas, Nilgiris, and Suleimans.	Kashmir, 15th; Kangra, 5th; eggs.
18	The lesser "	<i>Erythropus cenchris</i> ...	Ditto ...	Ditto ...	The Nilgiris	Very little known.
23	The Shikra	<i>Micronis badius</i> ...	A loose cup	High up in lofty trees.	Throughout India	Central Provinces; eggs.
24	The sparrow Hawk	<i>Accipiter nisus</i> ...	A small platform.	In trees in wooded valleys.	The western Himalayas	Kashmir, 2nd; eggs.
28	The dove "	" <i>melaschistus</i>	Ditto ...	On ledges of cliffs	The Himalayas only	Simla, 5th; eggs.
29	The spotted Eagle	<i>Aquila naviya</i> ...	A large platform.	In high trees near top.	Continental India (locally.)	Saharunpur, 3rd, 11th; eggs
29	The Indian tawny "	" <i>vindhya</i> ...	Ditto ...	Ditto ...	The plains of upper India.	Saharunpur, 3rd; eggs.
30	The long-legged "	" <i>hastata</i> ...	Ditto ...	Ditto ...	Continental India (locally.)	Saharunpur, 5th; eggs.
48	The changeable hawk "	<i>Spizaetus caligatus</i> ...	Ditto ...	Ditto ...	Bengal and sub-Himalayas.	Season nearly over,
57	The white-eyed Buzzard	<i>Poliornis teesa</i> ...	A small platform.	In forks of trees	Plains of central India	Saharunpur, 9th; eggs.
57	The crested honey "	<i>Pernis cristata</i> ...	Irregular platform.	Ditto ...	Throughout India (locally.)	Saharunpur, 1st, 17th; eggs
59	The black-winged Kite	<i>Elanus melanopterus</i>	A shallow compact cup.	Ditto ...	Ditto	The Dehra Doon.
60	The Indian screech Owl	<i>Strix indica</i> ...	None ...	In holes in trees or buildings.	Throughout the plains	Agra, 10th; eggs.
83	The barefoot scops "	<i>Ephialtes spilocephala</i>	Ditto ...	In holes in trees ...	The Himalayas	Murree, 1st; eggs.
85	The Nilgiri house Swallow	<i>Hirundo domicola</i> ...	A semi-circular saucer.	On buildings or in caves.	The Nilgiris and Tenasserim.	Conoor; season ends.
	The great Indian mosque "	" <i>daurica</i> ...	Tubular, re-tort-shaped.	Ditto ...	The Himalayas	Throughout the month.
	The " "	" <i>erythropgia</i>	Ditto ...	Ditto ...	Throughout India proper.	Saharunpur, 5th; eggs.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
90	The dusky erag Martin	Cotyle concolor ...	A semi-circular cup.	On buildings or in caves.	Throughout India (locally).	Bundelkhand; eggs.
102	The palm Swift	Cypselus battasiensis	A tiny watch pocket.	On leaves of the toddy palm.	Throughout the plains (locally).	Bengal; eggs.
103	The southern hill Swiftlet	Collocalia unicolor ...	Small semi-circular saucer.	In caves or on rocks.	The Nilgiris and Asambo hills	Nilgiris; season ends.
104	The Indian crested Swift	Dendrochelidon coronatus.	A tiny half-saucer.	On dead boughs of high trees.	Forsts in India proper.	Darjeeling Terai, 1st; eggs.
108	The Nilgiri Nightjar	Caprimulgus kelaarti	None ...	On the ground of ten near bushes.	Peninsular India ...	Raipur (C. P.); eggs.
109	The large Bengal "	" albonotatus.	Ditto ...	Ditto	Wooded tracts in upper India.	Kumaon, 7th; eggs.
112	The common Indian "	" asiaticus	Ditto ...	Ditto	Throughout upper India.	Throughout the month.
114	Franklin's "	" monticolus.	Ditto ...	Ditto	In all wooded hilly tracts.	Ditto.
	Unwin's "	" unvini	Ditto ...	Ditto	The extreme west Himalayas.	Murree, 16th; eggs.
117	The common Bee eater	Merops viridis ...	Ditto ...	In deep holes in banks or plains.	Throughout India proper.	Season nearly over.
118	The blue-tailed "	" philippensis ...	Ditto ...	Ditto	Ditto	Lahore; eggs.
120	The Egyptian "	" aegyptius ...	Ditto ...	Ditto	Plains of the Punjab ...	Delhi; eggs.
121	The European "	" apiaster ...	Ditto ...	Ditto	The western Himalayas	Kashmir, 12th; eggs.
123	The common Roller	Coracias indica ...	Ditto ...	In holes in trees or buildings.	Throughout India proper.	Hansi, Meerut; eggs.
125	The European "	" garrula ...	Ditto ...	Ditto	The western Himalayas	Kashmir, 10th; eggs.
126	The broad-billed "	Eurystomus orientalis	Ditto ...	In holes in lofty trees.	Eastern sub-Himalayas	(Requires confirmation.)
129	The white-breasted Kingfisher	Halcyon smyrnensis ...	Ditto ...	In holes in river banks or wells.	Throughout India proper.	Hansi, 29th; eggs.
134	The little Indian "	Alcedo bengalensis ...	Ditto ...	In holes in banks near water.	Ditto	Doon, 14th; Kashmir; eggs.
138	The yellow-throated Broadbill	Psarismus dalhousiae	Large, rough, pear-sha ped	Pendent from twigs in high trees.	The eastern Himalayas	Kumaon, 16th; eggs (extracted).

140	The great Indian Hornbill	Homraius bicornis	None	In holes in lofty decayed trees.	Eastern sub-Himalayas	Season nearly over.
144	The northern grey	Meniceros bicornis	Ditto	In holes in decayed trees.	Throughout the plains	Ditto.
154	The Himalayan pied Woodpecker	Picus himalayanus	Ditto	In artificial holes in trees.	The Himalayas to Sik-kin.	Simla; eggs; season ends.
156	The lesser black	" cathpharius	Ditto	Ditto	The eastern Himalayas	Nepal, eggs; ditto.
157	The Indian spotted	" macei	Ditto	Ditto	Himalayas and eastern Bengal.	Murree, 2nd; eggs; do.
172	The black-naped green	Gecinys occipitalis	Ditto	Ditto	The Himalayas only	Kashmir, 30th; eggs.
180	The common gold back	Brachypternus aurantius.	Ditto	Ditto	Throughout the plains	Saharumpur, 7th; eggs.
191	The Marshall's Barbet	Megalakma marshallorum.	Ditto	Ditto	The Himalayas only	Kashmir, 22nd; Kumaon. 23rd; eggs.
192	Hodson's green	" hodgsoni	Ditto	Ditto	The outer Himalayas	Nepal; season ends.
199	The common Cuckoo	Cuculus canorus	(Habits parasi- sitic).	Lays in bushchats' or pipits' nests.	The Himalayas	Kotagurh, 11th; eggs; season ends.
201	The hoary-headed	" poliocephalus	Ditto	Lays in warblers' nests.	The western Himalayas	Kashmir, 2nd; eggs; sea- son ends.
204	The hill	" striatus	Ditto	Lays in laughing thrushes' nests.	The Himalayas	Kashmir, 17th; eggs; season ends.
207	The large hawk	Hierococyx sparverioi-	Ditto (?)	Ditto	The Himalayas and Nilgiris.	Nepal; season ends.
212	The pied crested	Coccytes melanoleucus	Ditto	Lays in babblers' nests.	Throughout India	Season commences.
214	The Koil	Eudynamis orientalis	Ditto	Lays in crows' nests	Throughout the plains	Throughout the month.
217	The common Concal	Centropus rufipennis	Large, rough, domed	In clumps of grass or thorny thickets	Throughout India pro- per.	Cawnpur, 25th; Hansi; eggs.
218	The lesser	" viridis	Ditto	Ditto	Eastern Bengal	Dacca; eggs.
220	The Bengal Sirkeer	Taccocua sirkee	A rough shal- low cup.	In low trees or thick bushes.	Plains of upper India	Hansi; eggs.
225	The Himalayan red	Œthopyga miles	Pear-shaped, side entrance.	Hanging from tips of branches.	The eastern Himalayas	Nepal; season ends.
229	The maroon-backed Honeysucker	" nipalensis	Ditto	Ditto	The eastern Himalayas and Khasia hills.	Ditto.
231	The black-breasted	" saturata	Ditto	Ditto	Ditto	Ditto.
234	The purple	Arachnechthra asiatica	Ditto	Ditto	Throughout India	Aligurh, 12th; Kashmir; eggs.
238	Tickell's Flowerpecker	Diceum minimum	Ditto	Ditto	Bombay central and N. E. India.	Calcutta, 26th; eggs.
	Hodgson's Treecreeper	Certhia hodgsoni	A rough cup	In crevices on high trees.	The western Himalayas	Kashmir, 5th; eggs.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
249	The white-cheeked Nuthatch	<i>Sitta leucopsis</i> ...	A shallow pad	In natural hollows in trees.	The western Himalayas	Kashmir, 5th; eggs.
256	The Indian grey Shrike	<i>Lanius lahtora</i> ...	A thick massive cup.	In small trees or thorny bushes.	Throughout the dry plains.	Aligurh, 17th; Agra; eggs.
257	The rufous-backed "	" <i>erythronotus</i> ...	Ditto ...	Ditto	Throughout India ...	Throughout the month.
258	The pale " "	" <i>caniceps</i> ...	Ditto ...	Ditto	The hilly parts of India	Doon, 21st; Nilgiris; eggs.
259	The grey-backed "	" <i>tephronotus</i> ...	Ditto ...	Ditto	The eastern Himalayas	Kumaon, 30th; Sikkim; eggs.
260	The black cap "	" <i>nigriceps</i> ...	Ditto ...	Ditto	Hill ranges of eastern India.	eggs. Ditto.
263	The bay-backed "	" <i>vittatus</i> ...	A neat cup	Ditto	Throughout India ...	Throughout the month.
268	The pied cuckoo "	<i>Volucivora sykesii</i> ...	A small saucer.	In horizontal forks of trees.	In forests throughout India.	Bundelkhund; eggs.
269	The dark-grey "	" <i>melaschistus</i> ...	Ditto ...	Ditto	The Himalayas	Nepal, Murree; eggs.
270	The large-grey "	<i>Gracula macei</i> ...	A broad saucer.	At tops of lofty trees.	Throughout India proper	Central Provinces; eggs.
271	The large Minivet	<i>Pericrocotus speciosus</i> ...	A small deep cup.	High trees near tips of boughs.	The Himalayas ...	The Doon, 6th, 17th; eggs.
272	The orange "	" <i>flammeus</i> ...	Ditto ...	Ditto	The hills of south India	Nilgiris, 24th; eggs.
278	The short-billed "	" <i>brevirostris</i> ...	Ditto ...	Ditto	The Himalayas ...	Season nearly over.
275	The rosy "	" <i>roseus</i> ...	Ditto ...	Ditto	Ditto	Murree, 12th; eggs.
276	The small "	" <i>peregrinus</i> ...	Ditto ...	Ditto	Throughout India proper.	Jhansi, Saugor; eggs.
278	The common drongo Shrike	<i>Dicurus albirictus</i> ...	A loose saucer.	In horizontal forks of trees.	Throughout India ...	N. W. P.; eggs; Kumaon; young.
281	Walden's " "	" <i>waldeni</i> ...	A neat saucer.	Ditto	The Himalayas ...	Kumaon, 2nd; Kashmir 10th; eggs.
282	The white-bellied "	" <i>cerulescens</i> ...	A loose saucer.	Ditto	The hilly regions of India.	Season commences.
283	The bronzed "	<i>Chaptalia oenea</i> ...	A broad saucer.	Ditto	In forests throughout India.	Nepal, 6th; eggs.
286	The oar-tailed "	<i>Bhringa remifer</i> ...	Ditto	Ditto	The eastern Himalayas	Sikkim; eggs.
286	The hair-crested "	<i>Chibia hottentota</i> ...	Ditto	Ditto	Ditto	Season nearly over.

288	The paradise Flycatcher	Tchitria paradisæ	A small delicate cup.	In trees on thin branches.	Moist forests throughout India.	Throughout the month.
290	The black-naped azure "	Myiagra azurea	A deep compact cup.	Ditto	Ditto	Nilgiris, 10th, 24th; eggs.
291	The white-throated Fantail	Leucocerca fuscoventris	A tiny inverted cone.	Ditto (or bushes)	Ditto (continental India.)	Kashmir, 27th; Kumaon, 5th; eggs.
292	The white-browed "	" aureola	A tiny cup	Ditto	Throughout continental India.	Aligarh, 15th; Murree; eggs.
293	The white-spotted "	" pectoralis	A tiny inverted cone.	Ditto	The hills of south India	Nilgiris; eggs.
294	The yellow-bellied "	Chelidorhynx hypoxantha	A deep neat cup	Ditto	The sub-Himalayas	Kumaon, Nepal.
295	The grey-headed Flycatcher	Cryptophila cinereocapilla	A watch pocket.	Against mossy trunks of trees.	Himalayas, Nilgiris, and Wynad	Kumaon, 26th, 29th; eggs.
296	The sooty "	Henichelidon fuliginosa	A compact pad	Ditto (or on stumps)	The western Himalayas	Kashmir, 5th; eggs.
301	The verditer "	Eumyias melanops	A thick cup	In mossy banks or under bridges.	The Himalayas	Kashmir, 7th; Kumaon, eggs.
304	The blue-throated Redbreast	Cyanus rubeculoides	Ditto (small)	Holes in banks or decayed trees.	Ditto	Masuri, 13th; eggs.
305	The southern blue	" banyanas	Ditto	Ditto	Southern India	Nilgiris; eggs
306	Tickell's "	" tickelliae	Ditto	Ditto	Central and southern India	Hoshungabad, 24th; eggs.
310	The white-browed blue Flycatcher	Muscicapula superciliosa.	Ditto	In holes or cracks in trees.	The Himalayas	Kashmir, 14th; Kumaon, 24th; eggs.
315	Macgregor's fairy "	Niltava macgregoriae	A large thick cup.	In clefts on rocks or under stumps.	The eastern Himalayas	Season nearly over.
316	The large "	" grandis	A large thick pad.	Ditto	Ditto	Ditto.
320	The slaty "	Siphia leucomelanura	A massive little cup.	On the ground at foot of trees.	The western Himalayas	Kashmir, 6th; eggs.
321	The rufous-breasted "	" superciliosa	A deep cup	Ditto	The Himalayas	Nepal; season ends.
324	The grey robin	" hyperythra	A large deep cup.	In forks in low bushes.	Ditto	Ditto.
	The white-tailed "	Erythrosterna parva	(Unknown)	(Unknown)	The western Himalayas	Kashmir.
333	The Nepal Wren	Troglodytes nipalensis	Nest globular, domed.	Low down in creepers on trees.	The Himalayas	Kashmir; eggs.
343	The Kashmir Flycatcher	" neglectus	Ditto	Ditto	Ditto	Ditto.
	The yellow-billed whistling Thrush	Myiophonus temminckii.	A massive saucer.	On ledges of banks near water.	Ditto	Kashmir 1st; Masuri, 16th; eggs.

No. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
344	The Nepal ground Thrush	<i>Hydromis nipalensis</i> ...	Large, globular, domed.	In banks often under a bush.	The eastern Himalayas	Sikkim ; season ends.
351	The blue rock "	<i>Petrocossyphus cyanus</i> .	Cup-shaped.	In holes in banks or walls.	The western "	Murree, 4th ; eggs.
353	The blue-headed chat "	<i>Orocetes cinclothynchus</i> .	A neat cup	In banks or at roots of trees.	The Himalayas	Kashmir, 18th ; eggs ; Kumaon, 4th ; young.
355	The rusty-throated bush "	<i>Geocichla citrina</i> ..	A broad cup	In forks of small trees.	Ditto	Masuri, Murree ; eggs.
356	The dusky "	" unicolor	Ditto	In thick forks or on stumps.	Ditto	Kashmir, 18th ; Kumaon, 6th ; eggs.
357	Ward's pied Blackbird	<i>Turdulus wardii</i>	Ditto	Ditto	Ditto	Masuri ; eggs.
361	The grey-winged "	<i>Merula bouboul</i> ..	Ditto	Ditto	Ditto	Kashmir, 6th ; Kumaon, 10th ; eggs.
363	The grey-headed Ouzel	" castanea	Ditto	In banks sometimes on stumps.	Ditto	Kashmir, 8th ; eggs.
368	The Indian missel Thrush	<i>Turdus hodgsoni</i>	Ditto	In thick forks of trees.	Ditto	Kooloo, 22nd ; eggs.
371	The small-billed mountain "	<i>Oreocincla dauma</i> ..	Ditto	Ditto	Ditto	Kashmir, 6th ; eggs.
385	The yellow-eyed Babbler	<i>Pycnonis sinensis</i> ..	A deep neat cup.	On stalks of herbs or bushes.	Throughout India proper.	Doon, Agra, Nilgiris ; eggs.
388	The Nepal quaker Thrush	<i>Alcippe nipalensis</i> ..	A deep massive cup.	In low thick bushes	The eastern Himalayas	Sikkim ; eggs.
389	The Nilgiri "	" poiocephala ..	Ditto	In thick bushes or saplings.	The hills of south India	Kotagiri, 5th ; eggs.
390	The black-headed "	" atriceps	Ditto	Low down in grass or reeds.	Ditto	Kotagiri, 17th ; eggs.
391	The black-headed wren Babbler	<i>Stachyris nigriceps</i> ..	Ditto	In banks near roots of shrubs.	The eastern Himalayas	Sikkim, 17th ; eggs.
392	The red-billed "	" pyrrhops	Ditto	Near the ground in low bushes.	Western Himalayas to Nepal.	Kashmir ; eggs.
393	The red-headed "	" ruficeps	Ditto	In bamboo clumps chiefly.	The eastern Himalayas	Nepal ; eggs.
397	The rufous-bellied "	<i>Dumetia hyperythra</i> ..	Nest, globular, domed.	In the roots of bamboo clumps.	Central and upper India	Chunar, 26th ; eggs.

398	The white-throated wren	<i>Dumetia albobularis</i> ...	Neat, globular, domed.	In low bushes ...	Southern India ...	Kotagiri, 9th, 17th; eggs.
	The Nepal spotted " "	<i>Pellorneum nipalensis</i>	Ditto ...	Low down in bushes or grass.	The eastern Himalayas	Nepal, Sikkim; eggs.
405	The rusty-cheeked " "	<i>Pomatorhinus erythrogenys</i> .	Large, globular, domed.	On the ground in bush or tuft,	The Himalayas ...	Nepal, 6th, 8th; Sikkim, 17th; eggs.
406	The slender-billed " "	<i>Xiphorhamphus supercilialis</i> .	Ditto ...	Low down in grass or bushes.	The eastern Himalayas	Nepal, 12th; eggs.
407	The white-crested laughing Thrush	<i>Garrulax leucolophus</i>	A broad shallow cup.	In thick bushes or low trees.	Himalayas east of Sutlej	The Doon, 28th; eggs.
408	The grey-sided " "	" <i>cerulatus</i> ...	A large deep cup.	In saplings or small trees.	The eastern Himalayas	Sikkim, 17th; eggs.
411	The white-throated " "	" <i>albobularis</i> ...	A broad shallow cup.	In thick bushes or low trees.	The Himalayas ...	Kashmir, 6th; Kumaon, 4th; eggs.
412	The black-forgotten " "	" <i>pectoralis</i> ...	Ditto ...	In bamboo clumps	The eastern Himalayas	Sikkim; eggs.
413	The necklaced " "	" <i>moniliger</i> ...	A large deep cup	In thick bushes or low trees.	Ditto ...	Sikkim, 6th; eggs.
415	The red headed " "	<i>Trochalopteron erythrocephalum</i> .	Ditto ...	In small trees or bushes.	The western Himalayas	Throughout the month.
416	The yellow-winged " "	" <i>chrysopteron</i> ...	Ditto ...	Ditto	The eastern "	Nepal, Sikkim; eggs.
417	The plain-coloured " "	" <i>subunicolor</i> ...	Ditto ...	Ditto	Ditto	Ditto.
418	The variegated " "	" <i>variegatum</i> ...	Ditto ...	Ditto	The western Himalayas	Muree, 15th; Simla, 25th; eggs.
420	The blue winged " "	" <i>squamatum</i> ...	Ditto ...	Ditto	The eastern "	Sikkim, 10th; eggs.
421	The red-throated " "	" <i>rufogulare</i> ...	Ditto ...	In thick bushes or trees.	Simla, Mussoorie.	Simla, Mussoorie.
423	The Nilgiri " "	" <i>cacchinans</i> ...	Ditto ...	In trees or small bushes.	The Nilgiris	Season nearly over.
425	The streaked " "	" <i>lineatum</i> ...	Cup-shaped	In low bushes or banks.	The Himalayas	Throughout the month.
426	The bristly " "	" <i>imbricatum</i> ...	Ditto ...	On the ground under bushes.	The eastern Himalayas	Nepal, 1st; eggs.
428	The hoary Barwing	<i>Actinodura nipalensis</i>	A shallow cup	In holes in rocks or banks.	Ditto	Nepal, Sikkim; eggs.
429	The black-headed Sibia	<i>Sibia capistrata</i> ...	A neat deep cup.	In outer twigs of trees or bushes.	The Himalayas	Kumaon, 29th; Muree, 5th; eggs.
	The Assam " "	" <i>gracilis</i> ...	Ditto ...	At tops of tall trees	Assam	Sikkim, 17th; eggs.

No. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
430	The magpie	<i>Sibia picaioides</i> ...	A neat deep cup.	At tops of tall trees	The eastern Himalayas	Darjeeling, 17th; eggs.
432	The Bengal Babbler	<i>Malacocircus canorus</i>	A loose straggling cup.	In thick bushes or saplings.	Plains of continental India.	Cawnpur. 18th; Calcutta. 23rd; eggs.
433	The white-headed "	" <i>griseus</i> ...	Ditto ...	In thorny trees or hedges.	Plains of south India	Season nearly over.
434	The jungle "	" <i>malabaricus</i>	Ditto ...	In thick thorny bushes or trees.	The hills of south India.	Nilgiris; eggs.
435	The rufous-tailed "	" <i>somervillii</i>	Ditto ...	Ditto ...	The western Ghats ...	Season nearly over.
436	The large grey "	" <i>malcolmi</i> ...	Cup-shaped	In thorny trees (acacia).	Throughout the plains...	Meerut, 14th; Cawnpur. 20th; eggs.
438	The striated bush "	<i>Chattarhoa caudata</i> ...	Ditto ...	In clumps of grass or bushes	Ditto ...	Saharunpur, Oude; eggs.
444	The Himalayan black Bulbul	<i>Hypsepetes psaroides</i>	A neat cup	In forks of bushes or trees.	The Himalayas ...	Kumaon, 8th; Kashmir. 16th; eggs.
445	The Nilgiri "	" <i>nilgiriensis</i>	A rough shallow cup	In bushes or clumps of parasites.	The Nilgiris ...	Season nearly over.
447	The rufous-bellied "	" <i>macellendani</i>	A neat shallow saucer	Hung from forks in thick foliage.	The eastern Himalayas	Ditto.
452	The white-browed bush "	<i>Ixos luteolus</i> ...	A loose straggling cup.	In outer twigs of bushes or trees	Southern and eastern India.	Bombay, 11th; eggs.
458	The white-cheeked crested "	<i>Otocompsa leucogenys</i>	A neat cup	In bushes or low trees	The Himalayas ...	Throughout the month.
459	The white-eared "	" <i>leucotis</i> ..	Ditto ...	In dense thorny bushes.	Western continental India.	Sind; eggs.
	The southern red whiskered "	" <i>fuscicaudata</i>	Ditto ...	In isolated bushes.	The hills of south India	Season nearly over.
461	The common Bengal "	<i>Pycnonotus pygæus</i> ...	A small slender cup.	In small trees or bushes.	Himalayas and eastern Bengal.	Throughout the month.
462	The common Madras "	" <i>pusillus</i> ...	Ditto ...	Ditto ...	Throughout the plains	Ditto.
470	The Indian golden Oriole	<i>Oriolus kundoo</i> ...	A neat deep cup.	Hung from slender forks in trees.	Throughout India ...	Ditto.
472	The black-headed "	" <i>melanocephalus</i>	Ditto ...	Ditto ...	Eastern continental India.	Allahabad, Raipur (C. P.); eggs.

475	The magpie Robin	<i>Copsychus saularis</i> ...	A shallow saucer.	In holes in trees or walls.	Throughout India ...	The Himalayas; eggs.
480	The brown-backed "	<i>Thamnobia cambaiensis</i>	A small cup	In holes in banks or buildings.	Plains of upper India	Throughout the month.
481	The black Bushchat	<i>Pratincola caprata</i> ...	A shallow pad	On the ground by clod or tuft.	Himalayas to central India.	Sambhur, 23rd; eggs.
483	The common Indian "	" indica ...	A small cup	In holes in banks or walls.	Himalayas and north-western Punjab.	Throughout the month.
486	The iron grey "	" ferrea ...	Ditto ...	Ditto ...	The Himalayas ...	Ditto.
494	The brown Rockchat	<i>Cercomela fusca</i> ...	A shallow pad	Ditto ...	Dry parts of continental India	Saugor, Rajputana; eggs.
505	The plumbous water Robin	<i>Rutacilla fuliginosa</i> ...	A small cup	In clefts or rocks by rivers.	The Himalayas ...	Kashmir, Kangra; eggs.
508	The white-breasted blue Woodchat.	<i>Ianthia rufilata</i> ...	Ditto ...	In banks or under logs.	The western Himalayas	Kashmir, 2nd; eggs.
513	The white-tailed Rubythroat	<i>Calliope pectoralis</i> ...	A shallow saucer.	In crevices of rocks	The eastern "	Sikkim; eggs.
515	The large reed Warbler	<i>Acrocephalus brunneiceps.</i>	A very deep cup.	In reeds growing in water.	The western "	Kashmir, 12th; eggs.
516	The lesser "	" dumetorum	Globular, domed.	In thick bushes or brambles.	The Himalayas ...	Kashmir, Kangra; eggs.
517	The paddy-field "	" agricola ..	A very deep cup.	In brambles or thick herbage.	The western Himalayas	Kashmir, 16th; eggs.
526	The strong-footed hill "	<i>Hirornis fortipes</i> ...	A small massive cup.	In low thick brush-wood.	The eastern "	Sikkim, 12th; eggs.
530	The Indian Tailorbird	<i>Orthotomus longicauda</i>	Deep cup.	Among leaves sewn together.	Throughout India ...	Sikkim, Nilgiris; eggs.
534	The ashy wren Warbler	<i>Prinia socialis</i> ..	A cup sewn in leaves.	Hanging in low bushes.	Southern India ...	Kotagiri; eggs.
535	Stewart's "	" stewarti ...	Nearly globular.	Ditto (or grass or herbs).	Upper India ...	Cawnpur, 27th; Doon; eggs.
538	Hodgson's "	" hodgsoni ...	A cup sewn to a leaf.	Hanging in low bushes.	Central India ...	Season begins.
539	The rufous grass "	<i>Cisticola schenicola</i> ...	A deep narrow purse.	In tufts of fine grass in swamps.	Throughout the plains	South India only.
	The fuscous wren "	<i>Drymoipus fuscus</i> ...	Deep, neat, domed.	In small bushes or grass.	The Terai, Deccan, and Nilgiris.	Nilgiris; eggs.
	The earth brown "	" terricolor ..	Deep, often-domed.	Ditto ...	Plains of continental India	Calcutta, 24th; Cawnpur, 27th; eggs.
547	The brown hill "	<i>Suya ciniger</i> ...	Deep flimsy-domed.	In low bushes on hill sides.	The Himalayas	Kangra, Doon; eggs.
548	The dusky "	" fuliginosa ...	Deep neat, domed.	Ditto ...	The eastern Himalayas	Sikkim; eggs.

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549	The black-throated hill Warbler	<i>Suya atrogularis</i> ...	Deep, neat, domed.	In small bushes or grass.	The eastern Himalayas	Kumaon, Sikkim; eggs.
551	The rufous-fronted wren "	<i>Franklinia buchanani</i>	Deep, ragged, often-domed	In bushes or low scrub.	Western continental India.	Aligurh, 30th; Chunar; eggs.
552	The aberrant tree "	<i>Neornis flavolivacea</i> ...	A neat shallow cup.	In bushes or low trees.	The eastern Himalayas	Nepal; eggs.
562	Tyler's " "	<i>Phylloscopus tyleri</i> ...	A deep thick cup.	At tips of boughs of high firs.	The western "	Kashmir, 4th; eggs.
565	The large-crowned "	<i>Reguloides occipitalis</i>	A loose cup.	In holes in stumps or banks.	Ditto	Muree, 17th; eggs.
566	The crowned "	" <i>superciliatus</i>	Large, rough, globular.	On the ground in mossy banks.	Ditto	Kashmir, 5th; eggs.
	The Dalmatian "	" <i>preregulus</i>	Neat, compact, domed.	At tips of boughs of high firs.	Ditto	Kashmir, 2nd; eggs.
	The grey-faced "	<i>Abornis chloronotus</i> ...	Purse-shaped (?)	Hung from twigs in bushes.	The eastern Himalayas	(Requires confirmation)
	The chestnut-headed "	" <i>castaneiceps</i> ...	Ditto (?) ...	In thick bushes or mossy banks.	Ditto	Nepal; eggs.
580	The Indian golden-crested Wren	<i>Regulus himalayensis</i>	A deep pouch	Hung from outer twigs in firs.	The Himalayas	Sutlej valley, 8th; young.
582	The Indian Whitethroat	<i>Sylvia affinis</i> ...	A shallow cup	In low bushes or thickets.	The western Himalayas	Kashmir; eggs.
584	The western spotted Forktail	<i>Henicurus maculatus</i>	A massive cup	On banks or rocks by water.	Ditto	Kangra; eggs.
586	The slaty back "	" <i>schistaceus</i>	Ditto ...	Ditto	The eastern Himalayas	Sikkim; eggs.
590	The eastern spotted " "	" <i>guttatus</i> ...	Ditto ...	Ditto	Ditto	Sikkim, 1st; eggs.
	The white-faced Wagtail	<i>Motacilla luzionensis</i> ...	A shallow pad	Under stones or wood in river beds	The western Himalayas	Kashmir, 1st; eggs.
592	The grey and yellow " "	" <i>melanope</i> ...	Ditto ...	Ditto	Ditto	Kashmir, 3rd; eggs.
596	The Indian Pipit	<i>Anthus arboreus</i> ...	A shallow cup	On the ground on grassy slopes.	The alpine Himalayas	Kooloo, 3rd; eggs.
597	The tree " "	" <i>maculatus</i> ...	Ditto ...	Ditto	Ditto	Kotagurh, Kumaon; eggs.
605	The ruddy " "	" <i>roseus</i> ...	Ditto ...	Ditto	Ditto	Gurhwal, 1st; eggs.
604	The brown rock " "	<i>Agrodroma griseorufescens</i> .	A shallow saucer.	On the ground by clod or tuft.	The western Himalayas	Kangra, 1st; Kashmir, 10th; eggs.

606	The upland Pipit	<i>Heterura sylvana</i> ...	A shallow saucer.	On the ground by clod or tuft.	The western Himalayas (extending to Nepal).	Season nearly over.
607	The purple thrush Tit	<i>Cochoa purpurea</i> ...	A large deep cup.	In small trees or bushes.	The eastern Himalayas	Kumaon; eggs.
608	The green " "	" <i>viridis</i> ...	Ditto ...	Ditto ...	Ditto ...	Sikkim; eggs.
609	The red-winged shrike "	<i>Pteruthius erythropterus</i> .	A rather deep cup.	At tops of high trees.	The western Himalayas	Murree, 10th; eggs.
614	The red-billed hill "	<i>Leiothrix luteus</i> ...	A substantial cup.	In thick bushes ...	The eastern "	Nepal, Sikkim; eggs.
615	The silver-eared " "	" <i>argentarius</i> ...	Ditto ...	Ditto ...	Ditto ...	Ditto
616	The stripe-throated " "	<i>Siva strigula</i> ...	Ditto ...	In slender forks of small trees.	Ditto	Ditto.
617	The blue-winged " "	" <i>cyanouroptera</i> ...	Ditto ...	Ditto ...	Ditto	Ditto.
618	The red-tailed " "	<i>Minla ignotincta</i> ...	Ditto ...	Ditto ...	Ditto	Ditto.
619	The chestnut-headed " "	" <i>castaneiceps</i> ...	A broad shallow cup.	In forks in thick bushes.	Ditto	Ditto.
621	The golden-breasted " "	<i>Proparus chrysæus</i> ...	Oval, domed	In bamboo clump	Ditto	Ditto.
623	The yellow-naped " "	<i>Ixulus flavicollis</i> ...	Ditto ...	On the ground in tufts of grass.	Ditto	Nepal, 7th; eggs.
624	The rusty-headed " "	" <i>occipitalis</i> ...	A shallow cup	In forks in small trees.	Ditto	Sikkim, 17th; eggs.
626	The stripe throat crested " "	<i>Yuhina gularis</i> ...	Large, globular, domed	Wedged in forks in trees or rocks.	Ditto	Sikkim, 19th; eggs.
628	The black-chinned " "	" <i>nigrimentum</i> ...	A neat shallow cup.	On thick forks in large trees.	Ditto	Sikkim, 17th; eggs.
631	The Indian white-eyed " "	<i>Zosterops palpebrosus</i> ...	A tiny regular cup.	Hung from twigs in trees or bushes.	Throughout India	Murree, 16th; Cawnpur, 17th; eggs.
638	The crested black " "	<i>Lophophanes melanolophus</i> .	A shallow pad	In holes in walls or trees.	The Himalayas	Kashmir; eggs.
644	The mountain " "	<i>Parus monticolus</i> ...	A rough mass of feathers.	Ditto ...	Ditto	Simla, 20th; eggs; season ends.
654	The rufous-breasted Accentor	<i>Accentor strophiatius</i>	A deep cup	On the ground in tufts of grass.	The eastern Himalayas	Nepal, Sikkim; eggs.
	Jerdon's " "	" <i>jerdoni</i> ...	Ditto ...	On lower boughs of pines.	The western "	Kashmir, 6th; eggs.

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659	The Indian carrion Crow	<i>Corvus corone</i> ...	A large compact cup.	High up in forks of trees.	The western Himalayas	Kashmir, 2nd; eggs.
663	The common "	" <i>impudicus</i> ...	Ditto ...	Ditto ...	Throughout India proper.	Cawnpur, 18th; Meerut, 14th; eggs.
665	The Jackdaw	" <i>monedula</i> ...	A small platform.	In holes in buildings or trees.	The western Himalayas	Kashmir; eggs.
669	The Himalayan Jay	<i>Garrulus bispecularis</i> ...	A neat compact cup.	On thick boughs of large trees.	The Himalayas ...	Kumaon, 2nd; eggs.
670	The black-throated "	" <i>lanceolatus</i> ...	A loose shallow cup.	In small trees or saplings.	Ditto (from Nepal west).	Throughout the month.
671	The red-billed blue "	<i>Urocissa occipitalis</i> ...	Ditto ...	In trees usually small ones.	Ditto (from Nepal to Suttel).	Season nearly over.
672	The yellow-billed "	" <i>flavirostris</i> ...	Ditto ...	In trees or saplings	East and extreme west Himalayas.	Kashmir, 1st; Sikkim; eggs.
674	The Indian Treepie	<i>Dendrocyitta rufa</i> ...	Ditto ...	In trees near the top	Throughout continental India.	Throughout the month.
676	The Himalayan "	" <i>himalayensis</i> ...	Ditto ...	In small trees or bushes.	The Himalayas ...	Nepal, 6th; Sikkim; eggs.
682	The bright Starling	<i>Sturnus nitens</i> ...	None ...	In holes in trees or buildings.	The north-west Punjab	Kashmir; season ends.
683	The pied Mynah	<i>Sturnopastor contra</i> ...	Large, globular, domed.	In trees at ends of boughs.	Continental India ...	Throughout the month.
684	The common "	<i>Acridotheres tristis</i> ...	None ...	In holes in trees or buildings.*	Throughout India ...	Cawnpur, 17th, 27th; eggs.
685	The bank "	" <i>ginginianus</i> ...	Ditto ...	Deep holes in banks or wells.	Plains of continental India.	Aligarh, 18th; eggs.
686	The jungle "	" <i>fuscus</i> ...	Ditto ...	In holes in trees or buildings.	In wooded hilly tracts	Kashmir, 29th; Kumaon, 7th; eggs.
687	The brahminy "	<i>Temenuchus pagodarum</i> ...	Ditto ...	Holes in decayed trees.	Throughout India proper.	Aligarh, 4th; Saugor; eggs.
688	The grey-headed "	" <i>malabaricus</i> ...	Ditto ...	Ditto ...	The eastern Himalayas	Sikkim; eggs.
694	The common Weaver bird	<i>Ploceus baya</i> ...	A pendent tort.	Hung from tips of boughs.	Throughout India proper.	Throughout the month.

* Sometimes in deserted nests of crows or even in cup-shaped nests of its own building.

698	The chestnut-bellied Munia	Munia rubroniger ...	Large, oval, domed.	In bamboos, reeds, or grass.	Eastern continental India.	Nepal; season begins.
702	Hodgson's "	" acuticauda ...	Ditto ...	In bamboos, palms, or bushes.	Ditto ...	Sikkim, 20th; eggs.
704	The Indian Amadavat	Estrelia amandara ...	Ditto ...	In thick bushes near water.	Locally throughout India.	Nilgiris; eggs.
706	The Indian house Sparrow	Passer indicus ...	A globular mass.	In and about houses	Throughout India ...	Throughout the month.
708	The cinnamon-headed "	" cinnamomeus...	Ditto ...	In holes in trees or houses.	The Himalayas ...	Kashmir, 15th; Simla, 15th; eggs.
710	The tree "	" montanus ...	Ditto ...	Ditto ...	The eastern Himalayas	Second brood begins.
713	The meadow Bunting	Emberiza cia ...	A shallow cup	On the ground by clod or tuft.	The western "	Kashmir, 3rd; Simla, 16th; eggs.
718	The white-capped "	" stewarti ...	Cup-shaped	Low down in bushes or grass.	Ditto	Muree; eggs.
719	The grey-headed "	" fucata ...	A shallow cup	On the ground by bush or grass.	Ditto	Kotegurh, 25th; eggs.
724	The crested black and chestnut "	Melophus melanicterus	A neat shallow cup.	In holes in banks or walls.	Locally in continental India.	Kashmir, 21st; Doon, 6th; eggs.
725	The black and yellow Grosbeak	Hesperiphona icteroides.	Cup-shaped	Near tops of trees or saplings.	The western Himalayas	Kashmir; eggs.
754	The Bengal bush Lark	Mniotilta assamica	A shallow cup, domed.	On the ground by tufts of grass.	Eastern continental India.	Saharunpur, 8th, 30th; eggs.
756	The red-winged "	" erythroptera	A shallow pad	Ditto ...	Throughout the month.	Throughout the month.
757	The singing "	" cantillans ..	Ditto (often domed.)	Ditto	Ditto (but locally)	Lahore, Hansi; eggs.
759	The desert finch "	Ammonanus luscitanica	A shallow pad	Ditto, by rock or stone.	The western Punjab ...	Nowshera; season ends.
760	The black-bellied "	Pyrrhuloxia grisea ...	A tiny shallow pad.	Ditto, by clod or tuft.	Throughout the plains	Throughout the month.
765	The northern crown-crest "	Spizaloxia deva ...	A shallow cup	Ditto	Western continental India.	Jhansi, Sangor; eggs.
766	The Himalayan sky "	Alauda dulcivox ...	A shallow saucer.	Ditto, on grassy slopes.	The western Himalayas	Kashmir; eggs.
	The Nilgiri "	" australis ...	Ditto ...	Ditto by bush or tuft.	The hills of south India	Nilgiris; eggs.
772	The Bengal green Pigeon	Crocopus phœnicepterus.	A small platform.	On outer forks of large trees.	Eastern sub-Himalayas	Saharunpur, 12th; eggs.
773	The southern "	" chlorogastera	Ditto ...	In small trees or bushes.	Throughout the plains	Agra, 2nd; Muttra, 12th; eggs.

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778	The kokla green Pigeon	<i>Sphenocercus sphenurus</i>	A small plat- form.	On outer boughs of trees.	The Himalayas ...	Kashmir, 18th, Kumaon, 30th; eggs.
781	The bronze-backed The imperial	<i>Carpophaga insignis</i> ...	Ditto ...	Ditto ...	The eastern Himalayas	Nepal; eggs.
783	The speckled wood	<i>Alsomonus hodgsoni</i> ...	Ditto ...	Unknown ...	The Himalayas ...	Kashmir, Kumaon.
784	The Himalayan	<i>Palumbus caesioides</i> ...	Ditto ...	In thorny bushes or small trees.	The western Himalayas	Kashmir, 20th; eggs.
786	The Nilgiri	" <i>elphinstonii</i>	Ditto ...	On thick boughs in forest trees.	The Nilgiris ...	Ootacamund; eggs.
788	The Indian blue rock	<i>Columba intermedia</i> ...	Ditto ...	On ledges of build- ings chiefly.	Throughout India pro- per.	Saharunpur, 12th; eggs.
791	The bar-tailed tree Dove	<i>Macropygia tusalia</i> ...	A tiny plat- form.	In outer forks of low trees.	The eastern Himalayas	Nepal, Sikkim; eggs.
792	Hodgson's turtle	<i>Turtur pulchra</i> ...	Ditto ...	On lower boughs of large trees.	The Himalayas ...	Throughout the month.
794	The brown	" <i>cambaiensis</i> ...	Ditto ...	In low trees or bushes.	Throughout the plains	Ditto.
795	The spotted	" <i>suratensis</i> ...	Ditto ...	Ditto ...	In all wooded parts ...	Kumaon, 8th; eggs.
796	The Indian ring	" <i>risorius</i> ...	Ditto ...	Ditto ...	Throughout the plains	Kumaon, 10th; eggs.
797	The ruddy	" <i>humilis</i> ...	Ditto ...	Ditto ...	Ditto (but local)	Cawnpur, 17th; eggs.
798	The emerald	<i>Chalcophaps indicus</i> ...	A shallow sau- cer.	In low thick trees or shrubs.	In all dense forests ...	Kumaon; eggs.
802	The common Sandgrouse	<i>Pterocles exustus</i> ...	None ...	On the bare ground	Western continental In- dia.	Throughout the month.
803	The Peacock	<i>Pavo cristatus</i> ...	A few dry leaves.	On the ground in brushwood.	Throughout India ...	Nilgiris; eggs.
811	The black-backed kalij Pheasant	<i>Gallophasias melanotus</i>	A shallow pad	On the ground in ringal or bracken.	The eastern Himalayas	Sikkim; eggs.
814	The red Spur-fowl	<i>Gallopodix spadiceus</i>	A few dry leaves.	On the ground in dense thickets.	South India to Bundel- khund.	Nilgiris; eggs.
816	The snow Pheasant	<i>Tetrao gallus himalayen- sis.</i>	Ditto ...	On the ground by rock or bush.	The alpine Himalayas	Throughout the month.

817	The snow Partridge	<i>Lewia nivicola</i> ...	A few dry leaves.	(Unknown,) probably among rock.)	The alpine Himalayas	Throughout the month.
818	The black "	<i>Francolinus vulgaris</i> ...	Ditto	On the ground in grass or crops.	Throughout upper India	Ditto.
820	The chukor "	<i>Caccabis chukor</i> ...	Ditto	On the ground on grassy slopes.	Himalayas, Salt range, and Suleimans	Season nearly over.
822	The grey "	<i>Ortygornis ponticeriana</i> ...	Ditto	On the ground in grass or bushes.	The plains of India proper.	Aligurh, 12th ; eggs,
824	The peora "	<i>Arboricola torquella</i> ...	Ditto	On the ground in dense cover.	The Himalayas ...	Throughout the month.
833	The Himalayan bustard Quail	<i>Turnix plumbeipes</i> ...	Ditto	On the ground in grass or bush.	The outer Himalayas ..	Sikkim ; eggs.
836	The Indian Bustard	<i>Eupodotis edwardsii</i> ...	None	On the ground in scanty grass.	Western continental India.	Sirsa ; eggs.
838	The Florikin	<i>Sypheotides bengalensis</i>	Ditto	On the ground in thick grass.	Eastern Bengal and the Terais.	Throughout the month.
840	The Indian courier Plover	<i>Cursorius coromandelicus</i> .	Ditto	On the ground in fallow land.	All dry plains (except the Punjab only.	Etawah, Sholapur ; eggs.
846	The cream-coloured "	" <i>gallicus</i> ...	Ditto	Ditto	The Punjab only.	Throughout the month.
847	The greater shore "	<i>Ægialites leschenaulti</i>	Ditto	Ditto by water ...	The Thibetan lakes.	Season ends.
855	Pallas's "	" <i>mongolicus</i> ...	Ditto	Ditto	Ditto	Ditto.
	The red-wattled "	<i>Lobivanellus goensis</i> ...	Ditto	On the ground on raised spots.	Throughout India ...	Upper India ; eggs.
859	The stone "	<i>Œdienennus crepitans</i> ...	Ditto	On the ground by bush or tree.	Ditto (but locally)	Saharunpur, 7th, 13th ; eggs.
863	The sarus Crane	<i>Grus antigone</i> ...	Large, truncated cone.	On reedy islands in swamps.	Throughout the plains	Season begins.
893	The common Sandpiper	<i>Actitis hypoleucos</i> ...	None	On the ground on river banks.	The western Himalayas	Kashmir ; eggs.
898	The Salt	<i>Himantopus candidus</i>	Ditto	On the ground in Salt works.	Near Delhi and Gurgaon.	Delhi, 5th ; eggs.
903	The common Coot	<i>Fulica atra</i> ...	A large mass of weeds.	Among rice or bushes in water.	Throughout India ...	Kashmir, 12th ; eggs.
908	The brown Rail	<i>Porzana akool</i> ...	A small platform.	In long grass or bushes by water.	Central and upper India	Jiansi, 10th, 18th ; eggs.
910	Baillon's Crake	" <i>pygmaea</i> ...	A massive cup.	In reeds or rice in water.	Himalayas and upper India.	Kashmir, Simla ; eggs.
920	The white-necked Stork	<i>Melanopelargus episcopus</i> .	A loose platform.	Near tops of large trees.	Throughout India proper.	Hansi, Saharunpur ; eggs.
923	The common Heron	<i>Ardea cinerea</i> ...	Ditto	On large trees (gregarious.)	Throughout India locally.	Saugor ; eggs.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
924	The purple Heron	<i>Ardea purpurea</i> ...	A loose platform.	In thick beds of reeds in water.	Throughout India proper.	Saugor; eggs.
930	The little pond "	<i>Ardeola grayi</i> ...	Ditto ...	In forks of trees ...	Ditto ...	Upper India. season begins.
933	The chestnut Bittern	<i>Ardeotis cinnamomea</i> ...	Ditto ...	In reeds or thickets in water.	Continental India. ...	Tipperah, 6th; eggs.
934	The yellow "	" <i>sinensis</i> ...	Ditto ...	Ditto ...	Eastern Bengal ...	Tipperah, 20th; eggs.
935	The little "	" <i>minuta</i> ...	Ditto ...	Ditto ...	The Himalayas ...	Kashmir, 12th; eggs.
940	The shell Ibis	<i>Anastomus oscitans</i> ...	Ditto ...	On tops of high trees.	Locally throughout India.	Oudh, 28th; eggs
941	The white "	<i>Threskiornis melanoccephalus.</i>	Ditto ...	Ditto ...	Ditto ...	Etawah, 20th; Jhansi; eggs.
942	The king Curlew	<i>Georticus papillosus</i>	Ditto ...	High up in large trees.	Throughout the plains	Hansi, 12th, 18th; eggs.
950	The black-backed Goose	<i>Sarkidiornis melanotos</i>	A few leaves	In holes in decayed trees	Ditto ...	Saharumpur, 30th; eggs.
952	The whistling Teal	<i>Dendrocygna arenata</i>	A loose platform.	In low trees or sapplings by water.	Ditto ...	Fatehgurh, 20th; eggs.
958	The Mallard	<i>Anas boschas</i> ...	A shallow pad	In rushes or grass by water.	The western Himalayas	Kashmir, 12th; eggs.
960	The pink-headed Duck	" <i>caryophyllacea</i> ...	Ditto ...	Ditto ...	Lower and eastern Bengal.	Purneah; eggs.
969	The white-eyed "	<i>Arthya nyroca</i> ...	Ditto ...	Ditto ...	The western Himalayas	Kashmir, 8th, 9th; eggs.
975	The little Grebe	<i>Lodiceps philippensis</i>	A large mass of weeds.	In rushes or low trees over water.	Throughout India ...	Etawah, 8th; Nilgiris, eggs.
984	The whiskered Tern	<i>Hydrochelidon indicus</i>	A slight platform.	On lily or lotus leaves in water.	Himalayas and upper India.	Kashmir, 8th; eggs.
989	The large sea "	<i>Sterna bergii</i> ...	None	The bare ground on rocky islands.	The gulf of Oman ...	Astola; eggs.
990	The small "	" <i>bengalensis</i> ...	Ditto ...	Ditto ...	Ditto ...	Ditto.
	The Kentish "	" <i>cantiana</i> ...	Ditto ...	Ditto ...	Ditto ...	Ditto.
991	The little black-naped "	<i>Onochoptrion melanau-chen.</i>	Ditto ...	Ditto ...	The Andamans and Nicobars.	Throughout the month.



MARSHALL, DEL.

NEST OF THE YELLOW-THROATED BROADBILL.

(Psarisomus dalhousiae.)

JULY.

THIS is in the plains the principal month for taking the eggs of the water-birds, wren warblers, and munias, while in the Himalayas the finches and buntings are the most numerous breeders. The birds of prey, parrots, hornbills, most of the woodpeckers and the barbets, the nuthatches and creepers, thrushes and blackbirds, and tits of almost all kinds, have ceased to lay. The shrikes, small minivets, the turtle doves, ringdoves are still breeding everywhere. And throughout the plains the eggs of the common drongo, tailor bird, rufous grass warbler, peafowl, bustard quail, red-wattled plovers, purple coots, common coots, and water-hens, may be taken.

In the HIMALAYAS, the eggs of the mosque swallow, the swift, the roller, the Marshall's barbet, the common and large hawk cuckoos, paradise flycatcher, grey-headed and verditer flycatchers, the grey-winged blackbird, striated jay thrush, Nepal quaker thrush, red-billed wren babbler, several of the laughing thrushes, some of the bulbuls, bushchats, hill warblers, tree warblers and pipits, the rufous-breasted accentor, blue magpie, mynahs, munias, sparrows, bartailed tree doves, emerald doves, kalij pheasants, Hodgson's partridges, chukor, peora partridge, bustard quail, rails, and bitterns may still be found, but the season is practically over, except in the more elevated ranges and towards the far west. Eggs of buntings and finches are found throughout the ranges. The *golden woodchat* begins to pair and build during this month.

In the PUNJAB, the crested honey buzzard is still laying. The mosque and cliff swallows have their second brood. The white-breasted kingfisher and common gold back woodpecker breed throughout the month. Also the koel, coucal and sirkeer, the white-eared bulbul, the golden oriole, brown-backed robin, Stewart's wren warbler, and all other wren warblers that occur there, the common crow, mynahs, pin-tailed munias, bushlarks and black-bellied finchlarks, the common sandgrouse, the black partridge, bustard, courier plover, red-wattled plover, white-necked stork, common heron, egrets, pond herons, cattle herons, green bitterns, night herons, and spoonbills have eggs. By the end of the month the *black-winged kites*, the *large button quail*, and *Blyth's water hen* (very rare) are beginning to pair and build.

In the NORTH-WEST PROVINCES, the birds of prey have all ceased to lay. Eggs of all the resident swallows may be found, and the palm swift has its second brood. The cuckoos, coucals and sirkeers are laying. The large grey cuckoo shrike, the fantail, the yellow-eyed babbler, the rufous-bellied wren babbler, all other babblers, except the reed babbler, the golden oriole, the wren warblers, white-eyed tits, tree pies, mynahs, weaver bird, pin-tailed munia, bushlarks, finch larks, stone plover, still have eggs; while those of the sarus crane, pheasant-tailed jacana, Baillon's crane, white-necked stork, herons, and egrets of all kinds, spoonbills, Ibis's geese, teal, and snakebirds are found throughout the month. The *marsh terns* also breed in this month, and the *great rufous wren warbler*, *striated weaver birds*, *cinnamon bitterns*, and *spotted billed ducks* commence to pair and build.

In BENGAL, the palm swift has its second brood. The broad-billed roller is believed to be breeding, but its eggs have not been taken. The coucal, tailor-bird, white-breasted kingfisher, common babbler, yellow-bellied wren warbler, white-winged green bulbul, chestnut-bellied munia and spotted munia, and the bustard quail lay in the neighbourhood of Calcutta. The Bengal grass warbler in the eastern districts, the blue-breasted quail and florikin in the Terai districts. The bronzed-winged jacana, the water cock, Baillon's crane, the great heron, the black bittern and chestnut bittern, the pink-headed duck, and probably most of the other resident water birds lay everywhere throughout the month.

In CENTRAL INDIA, the swallows, dusky crag martins, nightjars, koels, coucals, cuckoo shrikes, fantails, ground thrushes, wren babblers, green bulbuls, robins, rockchats, almost all the wren warblers, titlarks, treepies, mynahs, munias, amadavats, crested buntings, bushlarks, crown crest larks, painted partridges, bustard, jacanas, rails, herons, egrets, and white ibis, are laying still, while *Sykes's warbler*, the *lesser button quail*, and the *larger whistling teal* begin to pair and build.

In SOUTHERN INDIA, the orange minivet, the black-naped azure flycatcher, the white-spotted fantail, the yellow-eyed babbler, black-headed quaker thrush, most of the wren warblers, the white-eyed tit, the jungle mynah, and most of the munias, appear to be the principal breeders during this month. Towards the end of it *Jerdon's wren warbler*, the *Malabar crested lark*, and the *rain quail* commence to pair and build.

JULY.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
57	The crested honey Buzzard	<i>Pernis cristata</i>	Irregular plat- form.	In forks half way up trees.	Throughout India (lo- cally).	Hansi, 5th 10th; eggs.
84	The wire-tailed Swallow	<i>Hirundo ruficeps</i>	...	On bridges or rocks by water.	Ditto	Aligurh, 27th; Sambhur, 13th; eggs.
85	The great Indian mosque "	" <i>daurica</i>	Tubular, re- tort-shaped	In buildings or in caves.	The Himalayas	Second brood begins.
	The " "	" <i>erythrogygia</i>	Ditto	Ditto	...	Upper India; eggs.
86	The Indian cliff "	" <i>flavicola</i>	Retort-shaped	On cliffs by water or buildings.	Throughout India pro- per.	Second brood begins.
90	The dusky crag Martin	<i>Cotyle concolor</i>	Semi-circular cup.	In buildings or in caves.	Northern and central India.	Central India; do.
92	The house "	<i>Chelidon urbica</i>	Ditto	Against rocks or on cliffs.	Throughout India (lo- cally).	Mysores; eggs.
100	The common Indian Swift	<i>Cypselus abyssinicus</i>	Semi-globular	Under bridges or eaves of houses.	Southern India	Himalayas; eggs.
102	The palm "	" <i>batasiensis</i>	A tiny watch pocket	On leaves of the toddy palm.	Throughout India	Agra, Bengal; eggs.
108	The Nilgiri Nightjar	<i>Caprimulgus kelaarti</i>	None	On the ground of- ten by a bush.	Peninsular India	Central Provinces; eggs.
112	The common Indian "	" <i>asiaticus</i>	Ditto	Ditto	Throughout upper In- dia.	Ditto.
114	Franklin's "	" <i>monticolus</i>	Ditto	Ditto	In all wooded hilly tracts.	Season ends.
125	The European Roller	<i>Coracias garrula</i>	Ditto	In holes in trees or buildings.	The western Himalayas	Kashmir; do.
126	The broad-billed "	<i>Eurystomus orientalis</i>	Ditto	In holes in lofty trees.	Eastern sub-Himalayas	(Requires confirmation).
129	The white-breasted Kingfisher	<i>Haleyon smyrnensis</i>	Ditto	Holes in river banks or wells.	Throughout India pro- per.	Caleutta, 1st; Hansi, 4th, 18th; eggs.
180	The common gold- back Woodpecker	<i>Brachypternus auranti-</i> <i>tus.</i>	Ditto	In artificial holes in trees.	Throughout the plains	Hansi, 17th; eggs.
191	The Marshall's Barbet	<i>Megalena marshallo-</i> <i>rum.</i>	Ditto	Ditto	The Himalayas	Season nearly over.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
199	The common Cuckoo	<i>Cuculus canorus</i> ...	(Parasitic ha- bits.)	Eggs laid in bush- chats' or pipits' nests	The Himalayas ...	Kangra, 4th; eggs; season nearly over.
207	The large hawk	<i>Hierococcyx sparverioi- des.</i>	Ditto (?) ...	Eggs laid in laugh- ing thrushes' nests.	Ditto (and Nilgiris) ...	Nepal; season ends.
212	The pied-crested "	<i>Coccyzus melanoleucus</i>	Ditto ...	Eggs laid in bab- blers' nests.	Throughout India ...	Cavnpur, 13th; eggs (extracted).
214	The Koel	<i>Endynamis orientalis</i>	Ditto ...	Eggs laid in crows' nests.	Throughout the plains	Throughout the month.
217	The common Coucal	<i>Centropus rufipennis</i>	Large, rough, domed.	In clumps of grass or thorny thickets.	Throughout India pro- per.	Ditto.
220	The Bengal Sirkeer	<i>Taccocua sirkee</i> ...	A rough shal- low cup.	In low trees or thick bushes.	The plains of upper India.	Ditto.
234	The purple Honey sucker	<i>Arachnechthra asiatica</i>	Pear-shaped, side entrance.	Hanging from tips of branches.	Throughout India ...	Hansi; eggs; season ends.
247	The red-winged Wall creeper	<i>Tichodroma muraria</i>	A rough cup.	In clefts of rocks...	The Himalayas only ...	Simla.
256	The Indian grey Shrike	<i>Lanius lahitara</i> ...	A thick mass- ive cup.	In small trees or bushes.	Throughout the dry plains.	Aligurh, 12th; Saugor; eggs.
257	The rufous-backed "	" <i>erythronotus</i> ...	Ditto ...	Ditto ...	Throughout India ...	Throughout the month.
	The pale " "	" <i>caniceps</i> ...	Ditto ...	Ditto ...	The hilly regions of India.	Season nearly over.
258	The grey-backed "	" <i>tephronotus</i> ...	Ditto ...	Ditto ...	The Himalayas ...	Kumaon, 1st; Murree, 5th; eggs.
259	The black cap "	" <i>nigriceps</i> ...	Ditto ...	Ditto ...	Eastern continental In- dia.	Kumaon, 1st; eggs.
260	The bay-backed "	" <i>vittatus</i> ...	A neat cup	Ditto ...	Throughout India ...	Throughout the month.
268	The pied cuckoo "	<i>Volocivora sykesii</i> ...	A small sau- cer.	Wedged in outer forks of trees.	In forests throughout India.	Bundelkhand, 26th; eggs.
270	The large grey "	<i>Graucalus maccii</i> ...	A broad sau- cer.	Ditto (near top) ...	Locally in India pro- per.	Throughout the month.
272	The orange Minivet	<i>Pericrocotus flammeus</i>	A small deep cup.	In high trees near tips of branches.	The hills of South India	Kotagiri; eggs.
276	The small "	" <i>peregrinus</i>	Ditto ...	Ditto ...	Throughout India pro- per.	Throughout the month.

278	The common drongo Shrike	<i>Dicurus albirictus</i> ...	A loose saucer.	In trees in horizontal forks.	Throughout India ...	In the plains; eggs.
288	The paradise Flycatcher	<i>Tchitrea paradisii</i> ...	A small delicate cup.	On thin branches in trees.	Ditto (in moist forests.)	Murree; eggs; season ends
290	The black-naped azure	<i>Myiagra azurea</i> ...	A deep compact cup.	Ditto ...	Ditto	Nilgiris; eggs.
291	The white-throated Fantail	<i>Leucocerca fuscoventris</i>	A tiny inverted cone.	Ditto (or bushes)	Forests in continental India.	Season nearly over.
292	The white-browed "	" <i>aureola</i> ...	A tiny cup	Ditto ...	Throughout continental India.	Throughout the month.
293	The white-spotted "	" <i>pectoralis</i> ...	A tiny inverted cone.	Ditto	The hills of south India	Season nearly over.
295	The grey-headed Flycatcher	<i>Cryptolopha cinereocapilla</i> .	A watch pocket.	Against mossy trunks of trees.	The Himalayas, Nilgiris, and Wynaad.	Kumaon, 3rd; eggs.
301	The verdier "	<i>Eumyias melanops</i> ...	A thick cup	In mossy banks or under bridges.	The Himalayas only ...	Kashmir, 11th; eggs; season ends.
345	The Indian ground Thrush	<i>Pitta bengalensis</i> ...	Large, globular, domed.	Near the ground in brushwood.	The Central Provinces and sub-Himalayas.	Raipur (C. P.); eggs.
361	The grey-winged Blackbird	<i>Merula bouboul</i> ...	A broad cup	On thick boughs or stumps.	The Himalayas only ...	Kashmir, Kumaon; eggs.
382	The striated jay Thrush	<i>Grammatoptila striata</i>	A large shallow cup.	On lower boughs of large trees.	The eastern Himalayas	Darjeeling; eggs.
385	The yellow-eyed Babbler	<i>Pycnorhis sinensis</i> ...	A deep neat cup.	On stalks of herbs or bushes.	Throughout India proper.	Throughout the month.
388	The Nepal quaker Thrush	<i>Alceippe nipalensis</i> ...	A deep massive cup.	In low thick bushes	The eastern Himalayas	Darjeeling; eggs.
390	The black-headed "	" <i>atriceps</i> ...	Ditto	Low down in grass or reeds.	The hills of south India	Nilgiris, Conoor; eggs.
392	The red-billed wren Warbler	<i>Stachyris pyrrhops</i> ...	Ditto	Low down in small bushes.	The western Himalayas to Nepal.	Mussoorie, 30th; Murree; eggs.
397	The rufous-bellied "	<i>Dumetia hyperythra</i> ...	Neat, globular domed.	In the roots of bamboo.	Central and upper India	Throughout the month.
407	The white crested laughing Thrush	<i>Pellorneum nipalensis</i>	Ditto	On the ground in grass or bush.	The eastern Himalayas	Darjeeling; eggs.
412	The black-gorgetted "	<i>Garrulax leucolophus</i>	A broad shallow cup.	In thick bushes or low trees.	The eastern Himalayas to Satej.	Doon, 2nd; Darjeeling; eggs.
415	The red-headed "	" <i>pectoralis</i> ...	Ditto	In bamboo clumps	The eastern Himalayas	Sikkim; eggs.
418	The variegated "	<i>Trochalopteron erythrocephalum</i> .	A large deep cup.	In small trees or bushes.	The western Himalayas	Kumaon, 10th; eggs.
		" <i>variegatum</i> .	Ditto	Ditto	Ditto	Murree, 5th, 10th; eggs.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
421	The red-throated laughing Thrush	<i>Trochalopteron rufogulare</i>	A large deep cup.	In small trees or bushes.	The eastern Himalayas to Sutlej.	Sikkim; eggs.
425	The streaked "	" <i>lineatum</i>	Cup-shaped	In low bushes or mossy banks.	The Himalayas only ...	Masuri, 25th, 26th; Murree; eggs.
429	The black-headed Sibia	<i>Sibia capistrata</i>	A neat deep cup.	In outer twigs of trees or bushes.	Ditto ...	Kumaon, 3rd; Murree; eggs.
432	The Bengal Babbler	<i>Malacocircus canorus</i>	A loose straggling cup.	In thick bushes or small trees.	Plains of continental India.	Calcutta, 6th; Agra 21st; eggs.
426	The large grey "	" <i>malcolmi</i>	Cup-shaped	In thorny trees (acacia).	Throughout the plains	Aligarh, 25th; eggs.
438	The striated bush "	<i>Chattarhica caudata</i>	Ditto ...	In low bushes or grass.	Ditto ...	Agra; eggs.
451	The white-throated Bulbul	<i>Crimiger flaveolus</i>	A compact saucer.	In small trees or bushes.	The eastern Himalayas	Darjeeling; eggs.
458	The white-checked crested "	<i>Otocompsa leucogerys</i>	A neat cup	Ditto	The Himalayas only ...	Murree; eggs.
459	The white-eared "	" <i>leucotis</i>	Ditto ...	In dense thorny bushes.	Western continental India.	Hansi; eggs.
462	The common Madras "	<i>Pycnonotus pusillus</i>	A small slender cup.	In small trees or bushes.	Throughout the plains	Season nearly over.
463	Jerdon's green "	<i>Phyllornis jerdoni</i>	A small shallow cup.	In trees near tips of branches.	Central and southern India.	Raipur (C. P.); eggs.
467	The black-backed "	<i>Iora zeylanica</i>	A tiny cup	In trees near tips of boughs.	Southern and central India.	Mirzapur, Raipur; eggs.
468	The white-winged green "	" <i>typhia</i>	Ditto	Ditto	Plains of upper India	Calcutta, 18th; eggs.
470	The Indian golden Oriole	<i>Oriolus kundoo</i>	A neat deep cup.	Hung from slender forks in trees.	Throughout India ...	Hansi, 14th; Fatehgarh, 9th; eggs.
475	The magpie Robin	<i>Copsychus saularis</i>	A shallow saucer.	In holes in trees or walls.	Ditto ...	Season nearly over.
480	The brown-backed "	<i>Thamnobia cambaiensis</i>	A small cup	In holes in banks or buildings.	Plains of upper India	Saugor, Delhi; eggs.
483	The common Indian Bushchat	<i>Pratincola indica</i>	Ditto ...	In holes in banks or walls.	The Himalayas and N. W. Punjab.	Simla, Murree; eggs.
486	The iron-grey "	" <i>ferrea</i>	Ditto ...	Ditto	The Himalayas only	Murree; eggs.
494	The brown Rockchat	<i>Cercomela fusca</i>	A shallow pad	Ditto	Western continental India.	Saugor; eggs.

The brown-breasted hill Warbler		Dumeticola brunneipes.	Oral, domed	Low down in clumps of reeds.	The Himalayas.	Nepal; eggs.
523	The fulvous-breasted "	Horornis fulviventris	A small massive cup.	On the ground in mossy banks.	The eastern Himalayas	Darjeeling; eggs.
526	The strong-footed "	" fortipes	Ditto	In thick brushwood or low jungle.	Ditto	Ditto.
529	The large "	Horeites major	Ditto	Low down in thorny bushes.	Ditto	Native Sikkim; eggs.
530	The Indian Tailorbird	Orthotomus longicauda	Deep cup sewn in leaves.	In creepers or herbage.	Throughout India	Throughout the plains.
532	The yellow-bellied wren	Prinia flaviventris	Oral, often domed.	Sewn to twigs or leaves in shrubs.	Eastern Bengal	Calcutta, 30th; eggs.
534	The ashy "	" socialis	A cup sewn in leaves	Hanging in low bushes.	Southern India	In the plains; eggs.
535	Stewart's "	" stewarti	Nearly globular.	In low bushes often sewn to leaves.	Upper India	Agra, 17th, 30th; eggs.
537	The grey-capped "	" cinereocapilla	A cup sewn in leaves.	In creepers or low bushes.	The sub-Himalayas	The Doon, 22nd; eggs.
538	Hodgson's "	" hodgsoni	Ditto	In low bushes or herbage.	Central India	Raipur (C. P.), 1st, 12th, 13th; eggs.
539	The rufous grass "	Cisticola schœnicola	A deep narrow purse.	In tufts of fine grass in swamps.	Throughout the plains.	Throughout the month.
542	The Bengal "	Graminicola bengalensis.	A deep compact cup.	Fixed between reeds in swamps.	Eastern Bengal	Dacca; eggs.
543	The common wren "	Drymopius inornatus	Deep, neat, often domed.	Attached to twigs or leaves in shrubs.	Bombay presidency	Season commences.
	The earth-brown "	" terricolor	Ditto	In long grass or small bushes.	Plains of continental India.	Throughout the month.
544	The long-tailed "	" longicaudatus	Ditto	Ditto	Central and southern India.	(Requires confirmation).
	The great "	" insignis	Ditto	Low down in thick bushes.	Central India.	Seoni, 29th; eggs.
546	The allied "	" neglectus	Ditto	In forks of thorny bushes.	Ditto	Raipur; eggs.
	The fuscous "	" fuscus	Ditto	In long grass or small bushes.	The Terai, Deccan, and Nilgiris.	Nilgiris; season ends.
551	The rufous-fronted "	Franklinia buchanani	Deep ragged, often domed.	In bushes or low scrub jungle.	Western continental India.	Chunar, Hansi; eggs.

Nos. in Jordon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
552	The aberrant tree Warbler	<i>Nicornis flavolivacea</i> ...	A neat shallow cup.	In bushes or low trees.	The eastern Himalayas	Darjeeling, 10th; eggs.
563	The large crowned "	<i>Reguloides occipitalis</i>	A loose cup	In holes in stumps or bushes.	The western "	Murree, 10th; eggs; season ends.
586	The slaty-backed Forktail	<i>Henicurus schistaceus</i>	A massive cup	On banks or rocks by water.	The eastern "	Native Sikkim; eggs.
600	The Indian Titlark	<i>Corydalla rufula</i> ...	A shallow saucer.	On the ground by clod or tuft.	Throughout India ...	Sangor, 16th; eggs.
604	The brown rock Pipit	<i>Agrodroma griseorufescens.</i>	Ditto ...	Ditto	The western Himalayas	Murree; season ends.
606	The upland "	<i>Heterura sylvana</i> ...	Ditto ...	Ditto	Ditto (extending to Nepal).	Simla; ditto.
614	The red-billed hill Tit	<i>Leiothrix luteus</i> ...	A substantial cup.	In forks of thick bushes.	The eastern Himalayas	Nepal; eggs.
631	The Indian white-eyed "	<i>Zosterops palpebrosus</i>	A tiny regular cup.	Hung from twigs in trees or bushes.	Throughout India ...	Poona, 21st; Cawnpur; eggs.
654	The rufous-breasted Accentor	<i>Accentor strophilatus</i> ...	A deep cup	On the ground in tufts of grass.	The eastern Himalayas	Nepal; eggs.
663	The common Crow	<i>Corvus impudicus</i> ...	A large compact cup.	High up in forks of trees.	Throughout the plains	Season nearly over.
672	The yellow-billed blue Jay	<i>Urocissa flavirostris</i> ...	A loose shallow cup.	In forks of trees or saplings.	The east and extreme west Himalayas.	Murree; eggs.
674	The Indian Treepie	<i>Dendrocitta rufa</i> ...	Ditto ...	In trees near the top.	Throughout continental India.	Sangor, Fatehgarh; eggs.
676	The Himalayan "	" <i>himalayensis.</i>	Ditto ...	In small trees or bushes.	The Himalayas only ...	Sikkim, 30th; eggs.
683	The pied Mynah	<i>Sturnopaster contra</i> ...	Large, globular, domed.	In trees at ends of boughs.	Throughout continental India.	Jhansi; eggs.
684	The common "	<i>Acridotheres tristis</i> ...	None ...	In holes in trees or buildings.*	Throughout India ...	Aligarh, 20th; Sambhur, 15th; eggs.
685	The bank "	" <i>gingivanus</i>	Ditto ...	In deep holes in banks or wells.	Continental India ...	Aligarh, 8th; eggs.
686	The jungle "	" <i>fuscus</i> ...	Ditto ...	In holes in trees or buildings,	In all wooded hilly tracts.	Murree, Conoor; eggs.

* Or in old crows' nests or similar nests even of its own construction.

		Temenuchus pagodarum	None	I holes in decayed parts of trees. Hung from tips of boughs of trees. On sugarcane or reeds in water. In bamboos, reeds, or grass. Usually in thick thorny bushes. In bushes or caves of thatches. Usually in thick thorny bushes. In palms, bamboos, or small trees. In thick bushes or caves of thatches. In thick bushes near water. On stalks of sugarcane. In holes in trees (or houses). In holes in decayed trees. On the ground by stone or tuft. Low down in bushes or grass. On the ground in bush or grass. In holes in banks or walls. (Unknown) ... On the ground in a furze bush. In pine forests on outer boughs. On boughs often against the trunk.	Throughout India per.	Hansi, Saugor; eggs. Myrupuri, 20th; eggs. Central Provinces, 25th; eggs. Calcutta, 5th, 27th; C. P. 30th; Nepal; eggs. Throughout the month. Kotagiri; eggs. Ditto. Nepal, Sikkim; eggs. Second brood begins. Ditto. Central Provinces, 16th; eggs. Darjeeling, 24th; eggs. Murree; eggs. Simla; eggs. Murree, 4th; eggs. Kotagurh; eggs. Jhansi, Aboo, 18th; eggs. Kashmir. West Thibet, 7th; eggs. Kashmir. Simla, Nepal; eggs.
687	The brahmī Mynah		None			
694	The common Weaver bird	Ploceus baya	A pendent tort.		Ditto	
697	The black-headed Munia	Munia malacca	Large, oval, domed.		Southern and central India.	
698	The chestnut-bellied "	" rubroniger	Ditto		Eastern continental India.	
699	The spotted "	" undulata	Ditto		In all moist wooded tracts.	
700	The rufous-bellied "	" pectoralis	Ditto		The Nilgiris	
701	The white-backed "	" striata	Ditto		Peninsular and eastern India.	
702	Hodgson's "	" acuticauda	Ditto		Bengal and eastern Himalayas.	
703	The pin-tailed "	" malabarica	Ditto		Throughout India per.	
704	The Indian Amadavat	Estrellda amandara	Ditto		Locally throughout India.	
705	The green "	" formosa	Ditto		Central India.	
710	The tree Sparrow	Passer montanus	A globular mass		The eastern Himalayas	
711	The yellow-throated "	" flavicollis	Ditto		Generally throughout India.	
713	The meadow Bunting	Emberiza cia	A shallow cup		The western Himalayas	
718	The white-cap "	" stewarti	Cup-shaped		Ditto	
719	The grey-headed "	" fucata	A shallow cup		Ditto	
724	The black and chestnut crested Bunting.	Melophus melanicterus	A neat shallow cup.		In continental India (locally)	
732	The orange Bullfinch	Pyrrhula aurantiaca	(Unknown)		The western Himalayas	
737	The Circassian rose Finch	Carpodacus rubicilla...	Cup-shaped		The western alpine Himalayas.	
748	The red-browed "	Callacanthus burtoni...	A large cup		The western Himalayas	
750	The Indian Siskin	Chrysomitris spinoides	A neat massive cup.		Ditto	

No. in Jerdon	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
756	The red-winged bush Lark	<i>Mirafra erythroptera</i>	A shallow pad	On the ground by tuft of grass.	Continental India in the plains.	Throughout the month.
757	The singing "	" cantillans ...	Ditto (often domed).	Ditto ...	Ditto (locally) ...	Hansi; eggs.
760	The black-bellied finch "	<i>Pyrrhuloxia grisea</i> ...	A tiny shallow pad.	On the ground by clod or tuft.	Throughout the plains	Etawah, 28th; eggs.
765	The northern crown-crest "	<i>Spizella monticola</i> ...	A shallow cup	Ditto ...	Western continental India.	Throughout the month.
791	The bar-tailed tree Dove	<i>Macropygia turtur</i> ...	A tiny platform	In outer forks of low trees.	The eastern Himalayas	Darjeeling; eggs.
792	Hodgson's turtle "	<i>Turtur pulcherrima</i> ...	Ditto ...	On lower boughs of large trees.	The Himalayas only ...	Season nearly over.
794	The brown "	" cambaensis ...	Ditto ...	In low trees or bushes.	Throughout the plains	Throughout the month.
796	The Indian ring "	" risorius ...	Ditto ...	Ditto ...	Ditto	Ditto.
798	The emerald "	<i>Chalcophaps indica</i> ...	A shallow saucer.	In thick shrubs or low trees.	In all densely wooded tracts	Kumaon, 2nd; eggs.
802	The common Sandgrouse	<i>Pterocles exilis</i> ...	None ...	On the bare ground	Western continental India.	Sirsa, 1st, 23rd; eggs.
803	The Peacock	<i>Pavo cristatus</i> ...	A few dry leaves.	On the ground in brushwood.	Throughout India.	Saharunpur, 27th; Nil-giris; eggs.
811	The black-backed kalij Pheasant	<i>Gallophaps melanotos</i>	A shallow pad	On the ground in ringal or fern.	The eastern Himalayas	Darjeeling; eggs.
	Hodgson's Partridge	<i>Perdix hodgsoniae</i> ...	A few dry leaves.	On the ground in grass and scrub.	The alpine Himalayas	Pangong (17,000ft.), 12th; eggs.
818	The black "	<i>Francolinus vulgaris</i> ...	Ditto ...	On the ground in grass or crops.	Upper India (locally)	Season nearly over.
819	The painted "	" pictus ...	Ditto ...	Ditto ...	Central India to Junna	Jhansi; eggs.
820	The chukor "	<i>Caccabis chukor</i> ...	Ditto ...	On the ground in grassy slopes.	Himalayas, Salt range, and trans-Indus hills.	Thibet, 20th; eggs.
824	The peora "	<i>Arboricola torquella</i> ...	Ditto ...	On the ground in dense cover.	The Himalayas ...	Simala, 1st; eggs.
831	The blue-breasted Quail	<i>Excalfatoria sinensis</i> ...	Ditto ...	On the ground in grass and scrub.	The eastern sub-Himalayas.	Purneah, the Doon; eggs.
832	The bustard "	<i>Turnix taigoo</i> ...	Ditto ...	Ditto ...	In all wooded tracts ...	Throughout the month.

833	The Himalayan bustard Quail	Turnix plumbeipes ...	A few dry leaves.	On the ground in grass or scrub	The outer Himalayas	The Doon, 30th; eggs.
836	The Indian Bustard	Eupodotis edwardsii...	None	On the ground in scanty grass.	Western continental India.	Throughout the month.
838	The Florikin	Sypheotides bengalensis	Ditto	On the ground in long grass.	The Terai and eastern Bengal.	Ditto.
840	The Indian courier Plover	Cursorius coromandelicus.	Ditto	On the ground on fallow-land.	All dry plains, except the Punjab.	Season ends.
855	The cream coloured "	" gallicus ...	Ditto	Ditto	The Punjab only	Throughout the month.
855	The red wattled "	Lobivanellus goensis ...	Ditto	On the ground on raised spots.	Throughout India	Ditto.
859	The stone "	Ædicnemus crepitans	Ditto	On the ground by bush or trees.	Ditto (but locally)	Saharampur; eggs.
863	The sarus Crane	Grus antigone	Large, truncated cone.	On islands in shallow jheels.	Throughout the plains	Aligurh, 25th; eggs.
900	The bronze-winged Jacana	Metopidius indicus ...	A small pad of rushes.	Floating among water plants.	In all moist rainy tracts	Throughout the month.
901	The pheasant-tailed "	Hydrophasianus sinensis.	Ditto	Ditto	Throughout India.	Cawnpur, 8th; Aligurh, 30th; eggs.
902	The purple Coot	Porphyrio poliocephalus.	A large mass of weeds.	In thick grass or rushes by tanks.	Throughout the plains	Throughout the month.
903	The common "	Fulica atra	Ditto	Ditto	Throughout India	Ditto.
904	The water Cock	Gallinex cristatus ...	Ditto	On floating weeds or beds of rushes.	In all moist rainy tracts	Lower Bengal; eggs.
905	The " Hen	Gallinula chloropus ...	Ditto	Ditto (or on boughs overhanging water)	Throughout India	Throughout the month.
907	The white-breasted "	Porzana phenicura ...	A rough platform.	In bamboo, thickets, or reeds.	Ditto (locally)	Raipur (C. P.); eggs.
908	The brown Rail	" akool	A small platform.	In long grass or rushes.	In central and upper India.	Jhansi; eggs.
910	Bailon's Crake	" pygmaea ...	A massive cup	In beds of rushes or rice in water.	Himalayas and upper India.	Throughout the month.
911	The ruddy Rail	" fusca ...	Ditto	In beds of rushes or rice in water.	Ditto.	Ditto.
920	The white-necked Stork	Melanopelargus episcopus.	A loose platform.	Near tops of large trees.	In moist tracts throughout India.	Jhansi, 5th; Saharampur, 25th; eggs.
922	The great Heron	Ardea sumatrana ...	Ditto	On high trees in swamps.	The eastern sub-Himalayas	Darjeeling, Terai; eggs.
923	The common "	" cinerea ...	Ditto	On large trees near water.	Throughout India locally.	Etawah; eggs.
924	The purple "	" purpurea ...	Ditto	In tall reeds or in bushes.	Throughout India proper.	Saugor, Etawah, 31st; eggs.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
925	The white Heron	<i>Herodias alba</i> ...	A loose plat- form.	Near tops of trees	Throughout the plains	Upper India.
926	The little white "	" <i>egretoides</i> ...	Ditto ...	Ditto ...	Ditto	Ditto.
927	The little Egret	" <i>garzetta</i> ...	Ditto ...	Ditto ...	Ditto	Ditto.
929	The cattle "	<i>Buphus coromandus</i> ...	Ditto ...	Ditto ...	Ditto	Ditto.
930	The little pond Heron	<i>Ardeola grayi</i> ...	Ditto ...	In forks of trees.	Ditto	Ditto.
931	The little green Bittern	<i>Butorides javanicus</i> ...	Ditto ...	In trees or thickets by water.	Ditto (locally)	Delhi, 21st; eggs.
932	The black "	<i>Ardetta flavicollis</i> ...	Ditto ...	In bushes or reeds in water.	Eastern Bengal	Purneah; eggs.
933	The chestnut "	" <i>cinnamomea</i> ...	Ditto ...	In reeds or cane- brakes in water.	The Himalayas and upper India.	Kashmir, 11th; Calcutta,
937	The night Heron	<i>Nycticorax griseus</i> ...	Ditto ...	In high trees (some- times in reeds.)	Throughout India	6th, 27th; eggs. The Doab; eggs.
939	The Spoonbill	<i>Platalea leucorodia</i> ...	Ditto ...	On high trees near tanks.	Ditto	Ditto.
940	The shell Ibis	<i>Anastomus oscitans</i> ...	Ditto ...	Ditto ...	Ditto (locally)	Upper India.
941	The white "	<i>Threskiornis melanocephalus</i> .	Ditto ...	Ditto ...	Ditto	Jhansi, Etawah; eggs.
942	The king Curlew	<i>Geronticus papillosus</i>	Ditto ...	High up in large trees.	Throughout the plains	Aligrah, 30th; eggs.
950	The black-backed Goose	<i>Sarkidiornis melanotus</i>	A few leaves	In hollows in decay- ed trees.	Ditto	Saharampur, 20th; eggs.
951	The cotton Teal	<i>Nettapus coromandelianus</i> .	Ditto ...	Ditto ...	Ditto	Upper India.
952	The whistling "	<i>Dendrocygna arcuata</i>	A loose plat- form.	In small trees in or by water.	Ditto	Aligrah, 25th; Saharun- pur, 27th; eggs.
960	The pink-headed Duck	<i>Anas caryophyllacea</i> ...	A shallow pad	In rushes or grass in tanks.	In lower and eastern Bengal.	Purneah; eggs.
975	The little Grebe	<i>Podiceps philippensis</i>	A large mass of weeds.	In rushes or on low boughts in water.	Throughout India	Calcutta, 5th; Jhansi; eggs
984	The whiskered Tern	<i>Hydrochelidon indicus</i>	A slight plat- form.	On floating lily or lotus leaves.	In Kashmir and upper India.	Oudh, 7th; Kashmir, 26th; eggs.
991	The little black-naped "	<i>Onychoprion melanauchen</i> .	None	On the ground on rocky islands.	Andamans and Nicobars	Throughout the month.
1008	The Indian Snake bird	<i>Plotus melanogaster</i> ...	A rough plat- form.	On trees standing in water.	Throughout the plains	Etawah; eggs.



MARSHALL, DEL.

NEST OF THE WHISTLING TEAL

Dendrocygna oryzacea

AUGUST.

IN this month the water-birds and small wren warblers are the principal breeders throughout the plains. The eggs of the rufous grass warbler, the white-eyed tit, the pin-tailed munia, the jungle bush quail, the bustard quail, and the little grebe may be taken.

IN the HIMALAYAS, the season is now nearly over. Eggs of the mosque swallow, the small minivet, the grey-winged blackbird, the red-headed and streaked laughing thrushes, the golden woodchat, the brown-breasted hill warbler, the red-billed hill tit, the yellow-billed blue jay, the chestnut-bellied and spotted munias, the meadow bunting, the Indian siskin, Hodgson's turtle dove, and the black partridge may still be found, though only a few stragglers are laying. Probably at the higher elevations many of the *finches* breed in this month, but their nests have not as yet been found.

IN the PUNJAB, the black-winged kite is breeding, also the wire-tailed and mosque swallows; eggs of the sirkeer, the bay-backed shrike, the white-eyed bulbul, the striated reed babbler (second brood). The rufous-fronted wren warbler, the large button quail, the big bustard, Blythe's water hen, and most of the resident water-birds may still be taken. The *streaked wren warbler* is building for its second brood.

IN the NORTH-WEST PROVINCES, the wire-tailed and mosque swallows, the common swifts, the pied crested cuckoos, coucals, sirkeers rufous-backed and bay-backed shrikes, large grey cuckoo shrikes, white-browed fantails, babblers, reed babblers, wren warblers, mynahs, striated and common weaver birds, black-bellied finch larks, peafowl and almost all the resident water-birds, waders and swimmers, except the terns and plovers, have eggs throughout the month; while the *grass babbler*, *streaked wren warbler*, *black-throated weaver bird*, *painted snipe*, and *black-necked stork* commence building towards the end of the month.

IN BENGAL, the characteristic breeders are the yellow-bellied wren warbler, the tailor bird, the Bengal grass warbler, the chestnut-bellied munia, the peafowl, jacanas, rails and coots and bitterns, which almost all have eggs, besides, many of those which breed at this season in other parts. The *grass babbler* and *black-throated weaver bird* begin to build in this month.

IN CENTRAL INDIA, eggs of the cliff swallow, Nilgiri nightjar, purple honey sucker, blackcap shrike, pied cuckoo shrike, large grey cuckoo shrike, small minivet, white-browed fantail, ground thrush, rufous-bellied wren warbler, green bulbuls, ioras, the great and allied wren warblers, Sykes' warbler, the chestnut-bellied and spotted munias, the Indian amadavat, the crested bunting, the painted partridge, the lesser button quail, jacanas, coots, rails, king curlew, large whistling teal, and lesser cormorant may be taken during the month. The *likh florikin* and the *painted snipe* commence pairing and building towards the end of the month.

IN SOUTHERN INDIA, the honey suckers have eggs, also the ashy wren warbler, the common wren warbler, the brahminy mynah, the spotted white-backed and pin-tailed munias, the Indian amadavat, the crown-crest lark, the rain quail, bush quail, and bustard quail: probably the eggs of many other species also may be found. The *white-browed bush bulbul* and the *Nilgiri skylark* are building towards the end of the month for their second brood.

Nos. in Jernon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
59	The black-winged Kite	<i>Elanus melanopterus</i>	A shallow compact cup.	In forks of trees.	Locally throughout the plains.	Sambhur, 14th; eggs.
84	The wire-tailed Swallow	<i>Hirundo rufoceps</i> ...	A semi-circular saucer.	On bridges or rocks by water.	Ditto	Agra, 18th; Hansi; eggs
85	The great Indian mosque	" <i>daurica</i> ...	Tubular, retort-shaped.	In buildings or in caves.	The Himalayas	Season nearly over.
	The " "	" <i>erythropgia</i> ...	Ditto ...	Ditto	Throughout India proper.	Upper India; eggs.
86	The Indian cliff	" <i>flavicola</i> ...	Retort-shaped.	On buildings or on cliffs by water.	Central and northern India.	Jhansi; eggs.
100	The common Indian Swift	<i>Cypselus abyssinicus</i> ...	Semi-globular	Against buildings.	Throughout India	Saharunpur, 17th; eggs.
108	The Nilgiri Nightjar	<i>Caprimulgus kelaarti</i>	None	On the ground often by a bush.	Southern to central India	Raipur (C. P.); eggs.
114	Franklin's	" <i>monticolus</i>	Ditto	Ditto	In all wooded hill ranges	Season ends.
212	The pied-crested Cuckoo	<i>Coccyzus melanoleucus</i>	Parasitic habits.	Eggs laid in babbler's nests.	Throughout India	Throughout the month.
217	The common Coucal	<i>Centropus rufipennis</i>	Large, rough, domed.	In long grass, thickets, or thorny trees.	Throughout India proper.	Aligrah, 29th, 30th; eggs.
220	The Bengal Sirkeer	<i>Taccocua sirkee</i> ...	A rough shallow cup.	In low trees or thick bushes.	The plains of upper India.	Hansi; eggs.
232	The amethyst-rumped Honey-sucker.	<i>Leptocoma zeylanica</i> ...	Pear-shaped, side entrance	Hanging from tips of branches.	Bengal and peninsular India.	Salem; eggs.
233	The tiny " "	" <i>minima</i> ...	Ditto	Ditto	The Nilgiris	Season begins.
234	The purple " "	<i>Arachneothra asiatica</i>	Ditto	Ditto	Throughout India	Central India; eggs.
257	The rufous-backed Shrike	<i>Lanius erythronotus</i> ...	A thick massive cup.	In forks of trees or thorny bushes.	Ditto	Agra, 21st; eggs.
259	The black-cap " "	" <i>nigriceps</i>	Ditto	Ditto	Hills of eastern and central India.	Season ends.
260	The bay-backed " "	" <i>vittatus</i> ...	A neat cup	Ditto	Throughout India	Throughout the month.
268	The pied cuckoo " "	<i>Volvocivora sykesii</i> ...	A small saucer.	In thin horizontal forks of trees.	Forests of south and central India.	Bundelkhand; eggs.

Nos. in Jerdon	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
270	The large grey cuckoo Shrike	<i>Graucalus macei</i> ...	A broad saucer.	At tops of lofty trees	Locally in India proper	Throughout the month.
276	The small Minivet	<i>Pericrocotus peregrinus</i> ...	A small deep cup.	In high trees near tips of boughs.	Throughout India proper.	Kashmir, 1st; Aligurh, 27th; eggs.
292	The white-browed Fantail	<i>Leucocerca aureola</i> ...	A tiny cup	On thin boughs in trees or bushes.	Throughout continental India.	Agra, 1st; Saugor; eggs.
345	The Indian ground Thrush	<i>Pitta bengalensis</i> ...	Large, globular, domed.	On or near the ground in brush wood.	Central Provinces and sub Himalayas.	Raipur (C. P.); eggs.
361	The grey-winged Blackbird	<i>Merula bouboul</i> ...	A broad cup	On stumps or thick boughs of trees.	The Himalayas.	Kumaon, 8th; eggs.
385	The yellow-eyed Babbler	<i>Pycnorhis sinensis</i> ...	A deep neat cup.	On stalks of herbs or low bushes.	Throughout India proper.	Throughout the month.
396	The red-capped wren "	<i>Timalia pileata</i> ...	Rough, globular, domed.	In thickets, bushes, or grass.	North-Eastern India.	Calcutta, 12th; eggs.
397	The rufous-bellied "	<i>Dumetia hyperythra</i> ...	Neat, globular, domed	In the roots of bamboo clumps.	Central and upper India	Hoshungabad, 6th; eggs.
415	The red-headed laughing Thrush	<i>Trochalopteron erythrocephalum.</i>	A large deep cup.	In small trees or bush-s.	The western Himalayas	Kumaon, 16th; eggs.
425	The streaked "	" <i>lineatum.</i>	Cup-shaped	In low bushes or mossy banks.	The Himalayas ...	Mussoorie, 16th; Simla, 16th; eggs.
436	The large grey Babbler	<i>Malacocercus malcolmi</i>	Ditto ...	In thorny trees or bushes.	Throughout the plains	Aligurh, 25th; eggs.
438	The striated bush "	<i>Chatterhoca caudata</i> ...	Ditto ...	In low bushes or clumps of grass.	Ditto	Throughout the month.
439	The striated reed "	" <i>earlii</i> ...	Ditto ...	In reeds or clumps of grass.	Eastern continental India.	Second brood begins.
459	The white-eared Bulbul	<i>Otocompsa leucotis</i> ...	A neat cup	In dense thorny bushes.	Western continental India.	Hansi; eggs.
462	The common Madras "	<i>Pycnonotus pusillus</i> ...	A small slender cup.	In small trees or bushes.	Throughout the plains	Season ends.
463	Jerdon's green "	<i>Phyllornis jerdoni</i> ...	A small shallow cup.	In high trees near tips of boughs.	Central and southern India.	Raipur (C. P.); eggs.
467	The black and yellow "	<i>Iora zeylanica</i> ...	A tiny cup	In trees near tips of boughs.	Southern and central India.	Ditto.
470	The Indian golden Oriole	<i>Oriolus kundoo</i> ...	A neat deep cup.	In high trees hung in outer forks.	Throughout India ...	Season ends.

511	The golden Woodchat	Tarsiger chrysceus ...	A compact saucer.	In banks at roots of trees.	The eastern Himalayas	Nepal; eggs.
	The brown-breasted hill Warbler.	Dumeticola brunneipectus.	Oval, domed	Near the ground in beds of reeds.	The alpine "	Nepal, 2nd; eggs.
530	The Indian Tailor bird	Orthotomus longicauda	Deep cup-sewn in leaves.	In bushes or creepers	Throughout India	Calcutta, 10th; eggs; sea-son ends.
532	The yellow-bellied wren Warbler	Prinia flaviiventris	Oval, often domed.	Attached to leaves in shrubs.	Eastern Bengal	Calcutta, 4th; eggs.
534	The ashy "	" socialis	A cup sewn in leaves.	Hung in low bushes or herbs.	Southern India	Conoor; eggs.
535	Stewart's "	" stewarti	Nearly globular.	Ditto	Upper India	Agra, 8th; Fatehgarh, 17th; eggs.
539	The rufous grass "	Cisticola schenicola	A deep narrow purse.	In tufts of grass in dry fields.	Throughout the plains	Throughout the month.
542	The Bengal "	Graminicola bengalensis.	A deep compact cup.	Among reeds in damp places.	Eastern Bengal	Dacca; eggs.
543	The common wren "	Drymoipus inornatus	Deep, neat, often domed	Attached to leaves in shrubs.	Bombay coast	Bombay, 22nd, 28th; eggs.
	The earth brown "	" terricolor	Ditto	In small bushes or long grass.	Western continental India.	Aligarh, 29th, 30th; eggs.
544	The long-tailed "	" longicaudatus	Ditto	Ditto	Central and southern India.	(Requires confirmation.)
	Jerdon's "	" jerdoni	Ditto	Ditto	The Nilgiris.	Throughout the month.
	The great rufous "	" rufescens	Ditto	Low down in thorny bushes.	Continental India	Seetapur (Oudh); eggs.
	The great "	" insignis	Ditto	Low down in thick bushes.	Central India	Seoni (C. P.); eggs.
546	The allied "	" neglectus	Ditto	In forks of thorny bushes.	Ditto	Jhansi, 21st; eggs.
551	The rufous-fronted "	Franklinia buchanani	Deep, ragged, often domed	In bushes or low scrub.	Western continental India.	Hansi; eggs.
553	Sykes's "	Hyppolais rama	Ditto	Low down in thorny bushes.	Ditto	Jhansi, 12th; eggs.
614	The red-billed hill Tit	Leiothrix luteus	A substantial cup.	In forks of thick bushes.	The eastern Himalayas	Nepal, 12th; eggs.
631	The Indian white-eyed "	Zosterops palpebrosus	A tiny regular cup.	Hung from twigs in trees or bushes.	Throughout India	In the plains; eggs.
672	The yellow-billed blue Jay	Urocissa flavirostris	A loose shallow cup.	In forks of trees or saplings.	East and extreme west Himalayas.	Murree, 15th; eggs.
683	The pied Mynah	Sturnopastor contra	Large, globular, domed.	In trees at ends of boughs.	Continental India	Season nearly over.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
684	The common Mynah	<i>Acridotheres tristis</i> ...	None ...	In holes in trees or buildings.	Throughout India ...	Alighurh. 7th ; eggs.
687	The brahminy "	<i>Temenuchus pagodarum</i> ...	Ditto ...	In holes in decayed trees.	Throughout India proper	Shevaroy hills ; eggs.
694	The common Weaver bird	<i>Ploceus baya</i> ...	A pendent retort.	Hung from tips of boughs of trees.	Ditto ...	Alighurh, 30th; Calcutta; eggs.
695	The striated "	" manyar ...	Retort fixed to reeds	Hung from reeds or grass by water.	Ditto (locally) ...	Etawah, 28th ; eggs.
698	The chestnut-bellied Munia	<i>Munia rubroniger</i> ...	Large, oval, domed.	In bamboos, reeds, or grass.	Eastern continental India	Calcutta, 21st ; Nepal and C. P.; eggs.
699	The spotted "	" undulata ...	Ditto ...	Usually in thick thorny shrub.	In all moist wooded tracts.	Throughout the month.
701	The white-backed "	" striata ...	Ditto ...	Ditto ...	Peninsular and eastern India.	Nilgiris ; eggs.
703	The pin tailed "	" malabarica ...	Ditto ...	Ditto (or caves of houses)	Throughout India proper.	Throughout the month.
704	The Indian Amadavat	<i>Estrelida amandava</i> ...	Ditto ...	In thick bushes near water.	Ditto (locally) ...	Ditto.
713	The meadow Bunting	<i>Emberiza cia</i> ...	A shallow cup	On the ground by stone or tuft.	The western Himalayas	Simla. 4th ; eggs.
724	The black and chestnut-crested Bunting.	<i>Melophus melanicterus</i> ...	A neat shallow cup.	In holes in banks or walls.	Western continental India.	Jhansi, 14th ; Aboe ; eggs.
750	The Indian Siskin	<i>Chrysomitris spinoides</i> ...	A neat massive cup.	On boughs often against the trunk.	The Himalayas only ...	Simla ; eggs.
756	The red-winged bush Lark	<i>Mirafra erythroptera</i> ...	A shallow pad	On the ground by tufts of grass	Plains of continental India.	Season ends.
760	The black-bellied finch "	<i>Pyrrhuloxia grisea</i> ...	A tiny shallow pad.	On the ground by clod or spig.	Throughout the plains	Etawah, 21st ; eggs.
765	The northern crown crest "	<i>Spizalanda deva</i> ...	A shallow saucer.	Ditto ...	Western continental India.	Throughout the month.
768	The Malabar crested "	<i>Alauda malabarica</i> ...	Ditto ...	Ditto ...	Southern India ...	Mysore. Nilgiris ; eggs.
792	Hodgson's turtle Dove	<i>Turtur pulchra</i> ...	A tiny platform.	On lower boughs of large trees.	The Himalayas only ...	Simla. eggs ; season ends.
794	The brown "	" cambaiensis ...	Ditto ...	In low trees or bushes.	Throughout the plains	Agra. 2nd ; eggs.

796	The Indian ring Dove	<i>Turtur risorius</i>	...	A tiny plat- form.	In low trees or bushes	Throughout the plains	Throughout the month.
803	The Peacock	<i>Pavo cristatus</i>	...	A few dry leaves.	On the ground in brushwood.	Throughout India pro- per.	Upper India; eggs.
818	The black Partridge	<i>Francolinus vulgaris</i>	...	Ditto	On the ground in grass or crops.	In upper India (lo- cally).	Kashmir, 5th; eggs.
819	The painted "	" <i>pictus</i>	...	Ditto	Ditto	Central India	Throughout the month.
826	The jungle bush Quail	<i>Perdica cambaiensis</i>	...	Ditto	On the ground in long grass.	Throughout India	Ditto.
830	The rain "	<i>Coturnix coromandeliana</i>	...	Ditto	On the ground in grass or crops.	Southern and central India.	Ditto.
832	The bustard "	<i>Turnix taigoor</i>	...	Ditto	On the ground in grass or scrub.	In all wooded tracts	Ditto.
834	The large button "	" <i>tanki</i>	...	Ditto	On the ground in crops or grass.	Throughout India pro- per.	Sialkot, 26th; eggs.
835	The lesser "	" <i>dussumieri</i>	...	Ditto	Ditto	Ditto	The Decan, 17th; eggs.
836	The Indian Bustard	<i>Eupodotis edwardsii</i>	...	None	On the ground in scanty grass.	Western continental India.	Sirsa; eggs.
855	The red-wattled Plover	<i>Lobivanellus goensis</i>	...	Ditto	On the ground on raised spots	Throughout India	Season nearly over.
859	The stone "	<i>Edicnemus crepitans</i>	...	Ditto	On the ground of- ten under trees.	Ditto (locally)	Ditto.
863	The sarus Crane	<i>Grus antigone</i>	...	Large, trun- cated cone.	On islands among rushes in tanks.	Throughout the plains	Aligrah, 20th; eggs.
900	The bronze-winged Jacana	<i>Metopidius indicus</i>	...	A small pad of rushes.	Among illys or rushes in water.	The moist parts of In- dia	Bengal, Bundelkhand; eggs.
901	The pheasant-tailed "	<i>Hydrophasianus sinensis</i>	...	Ditto	Ditto	Throughout India	Aligrah, 3rd; Saugor; eggs.
902	The purple Coot	<i>Porphyrio poliocephalus</i>	...	A large mass of reeds.	In grass or wild rice in tanks.	Throughout the plains	Etawah, 23rd; Saugor; eggs.
903	The common "	<i>Fulica atra</i>	...	Ditto	Ditto	Throughout India	Etawah, Ahmednuggur, 21st; eggs.
904	The water Cock	<i>Gallinix cristatus</i>	...	Ditto	On floating weeds or beds of rushes.	In moist parts of In- dia	Eastern Bengal; eggs.
905	The " Hen	<i>Gallinula chloropus</i>	...	Ditto	In rushes or boughs overhanging water.	Throughout India	Etawah, 18th; eggs.
906	Blyth's "	" <i>burnesii</i>	...	Ditto	Ditto	North-west India (rare)	Salt range; eggs.
907	The white-breasted "	<i>Porzana phenicurea</i>	...	A rough plat- form.	In bamboos, thick- ets, or reeds	Throughout India (lo- cally)	Saugor, 11th; Oudh; eggs.
908	The brown Rail	" <i>akool</i>	...	A small plat- form.	In rushes or thick- ets on islands.	Central and upper In- dia.	Jhansi, 7th; eggs.
910	Baillon's Crane	" <i>pygmaea</i>	...	A massive cup	In rushes or rice in water.	Himalayas and upper India.	Etawah, 16th; eggs.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars of the Month.
911	The ruddy Rail	<i>Porzana fusca</i> ...	A massive cup	In rushes or rice in water.	In moist parts of In- dia.	Eastern Bengal; eggs.
920	The white-necked Stork	<i>Melanoplagus episcopus</i> .	A loose plat- form.	Near tops of large trees.	Throughout India pro- per.	Aligurh, 15th, 30th; eggs.
922	The great Heron	<i>Ardea sumatrana</i> ...	Ditto ...	On high trees in swamps.	The eastern sub-Hima- layas.	(Requires confirmation.)
923	The common "	" <i>cinerea</i> ...	Ditto ...	In large trees high up.	Throughout India (lo- cally.)	Etawah, 1st; eggs.
924	The purple "	" <i>purpurea</i> ...	Ditto ...	In thick beds of reeds.	Throughout India pro- per.	Etawah, 23rd; eggs.
925	The white "	<i>Herodias alba</i> ...	Ditto ...	Near tops of trees	Throughout the plains	Season nearly over.
926	The little "	" <i>egretoides</i> ...	Ditto ...	Ditto ...	Ditto ...	Aligurh, 18th; eggs.
927	The little Egret	" <i>garzetta</i> ...	Ditto ...	Ditto ...	Ditto ...	Aligurh, 29th; eggs.
929	The cattle "	<i>Buphus coromandus</i> ...	Ditto ...	Ditto ...	Ditto ...	Season nearly over.
930	The little pond Heron	<i>Ardeola grayi</i> ...	Ditto ...	In forks of trees ...	Ditto ...	Ditto
931	The little green Bittern	<i>Butorides javanicus</i> ...	Ditto ...	In trees or thickets by water.	Locally throughout In- dia.	Aligurh, 15th; eggs.
933	The chestnut "	<i>Ardetta cinnamomea</i> ...	Ditto ...	In reeds or cane brakes in water.	Himalayas and conti- nental India.	Calcutta, 6th; Etawah, 24th; eggs.
937	The night Heron	<i>Nycticorax griseus</i> ...	Ditto ...	In high trees (some- times in reeds).	Throughout India ...	Etawah, 21st; eggs.
939	The Spoonbill	<i>Platalea leucorodia</i> ...	Ditto ...	On high trees near water.	Ditto ...	Etawah, 8th; eggs.
940	The shell Ibis	<i>Anastomus oscitans</i> ...	Ditto ...	Ditto ...	Ditto (locally) ...	Etawah, 28th; eggs.
941	The white "	<i>Ireskionis melanoccephalus</i> .	Ditto ...	Ditto ...	Ditto ...	Etawah, 20th; eggs.
942	The king Curlew	<i>Geronticus papillosus</i>	Ditto ...	High up in large trees.	Throughout the plains	Jhansi, 27th; eggs.
950	The black-backed Goose	<i>Sarkidiornis melanotus</i>	A few leaves	In holes in decayed trees.	Ditto ...	Etawah, 1st; eggs.
951	The cotton Teal	<i>Nettapus coromandelianus</i> .	Ditto ...	Ditto (or walls)	Ditto ...	Jhansi, Etawah, Budaon; eggs.
952	The whistling "	<i>Dendrocygna arcuata</i>	A loose plat- form.	In small trees by or in water.	Ditto ...	Season nearly over.
953	The large "	" <i>major</i> ...	Some grass and twigs.	In holes in decayed trees.	In all moist districts ...	Saugor, 15th; eggs.

959	The spotted-billed Duck	Anas pectorhyncha ...	A shallow pad	In rushes or grass by water.	Throughout the plains	Etawah, 1st; Aligurh, 31st; eggs.
975	The little Grebe	Podiceps philippensis	A large mass of weeds.	In rushes or boughs over water.	Throughout India ...	Throughout the month.
984	The whiskered Tern	Hydrochelidon indicus	A slight platform.	On floating lily or lotus leaves.	Western Himalayas and upper India.	Etawah, 14th; eggs.
1006	The lesser Cormorant	Graculus fuscicollis ...	A rough platform.	On low trees in water.	Central and eastern India.	Jhansi; eggs.
1007	The little "	" javanicus ...	Ditto ...	Ditto	Throughout India ...	Etawah, 28th; eggs.
1008	The Indian Snakebird	Plotus melanogaster ..	Ditto ...	Ditto	Throughout the plains	Etawah, 9th; eggs.

SEPTEMBER.

IN this month the water-birds form the bulk of the breeders, and with them the season practically ends in upper India. Most of the wren warblers and the rufous grass warbler and pin-tailed munias too are breeding everywhere in the plains, and a few stragglers of other families and genera.

In the HIMALAYAS, eggs of the streaked laughing thrush have been taken, but no others are recorded, and the season may be looked on as practically over.

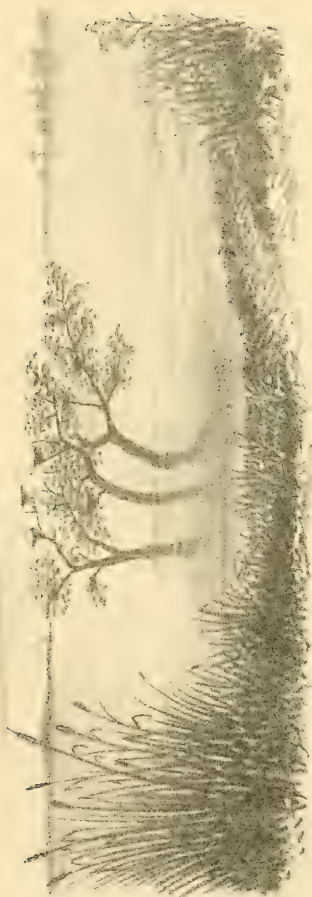
In the PUNJAB, eggs of the common sandgrouse, the grey partridge, and probably also those of the likh florikin may be taken. The pelican ibis too begins to lay in the eastern part of the province.

In the NORTH-WEST PROVINCES, eggs of the common coucal, the yellow-eyed babbler, the grass babbler, the common bulbul, all the wren warblers and weaver birds, the red-winged bush lark, common sandgrouse, the peafowl, painted snipe, black-necked and white-necked storks, purple herons, chestnut bitterns, spoonbills, king curlew and little grebes, and possibly of several other kinds may be found; but the breeding season is now perceptibly on the decline.

In BENGAL, the amethyst-rumped honey sucker, the grass babblers, the black-throated weaver birds, chestnut-bellied munias, bustard, quail, and painted snipe have eggs, while the *grass owls* begin pairing towards the end of the month.

In CENTRAL INDIA, the common bulbul, the allied wren warbler, the common sandgrouse, the painted partridge, the likh florikin, the painted snipe, the bronze-winged jacana, and the lesser cormorant are known to have eggs.

In SOUTH INDIA, eggs of the tiny honey sucker, the white-browed bush bulbul, the ashy wren warbler, the common wren warbler, the pin-tailed munia, the Malabar-crested lark, the turtle and ring doves, the red-billed bush quail, the rain quail, the likh florikin have been taken, and probably many other kinds lay. Towards the end of the month the *white-headed babbler*, the *jungle babbler*, *Adams's wren warbler*, and the *grey jungle fowl* commence to pair and build.



MARSHALL 112.

BREEDING PLACE OF THE LITTLE CORMORANTS.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars of the Month.
84	The wire-tailed Swallow	<i>Hirundo ruficeps</i> ...	A semi-circular saucer.	On bridges or rocks by water.	Locally throughout India.	Season nearly over.
86	The Indian cliff "	" <i>fluvicola</i> ...	Retort-shaped	On cliffs by water or buildings.	Central and northern India.	Season ends.
90	The dusky crag Martin	<i>Cotyle concolor</i> ...	Semi-circular cup.	Against buildings or rocks.	Locally throughout India.	Delhi; eggs.
217	The common Coucal	<i>Centropus rufipennis</i>	Large, rough, domed.	In clumps of grass or thorny thickets.	Throughout India proper.	Etawah, 5th; eggs.
232	The amethyst-rumped Honey-sucker	<i>Leptocoma zeylanica</i>	Pear-shaped, side entrance.	Hanging from tips of branches.	In lower Bengal and peninsular India.	Calcutta, 25th; season ends.
233	The tiny "	" <i>minima</i> ...	Ditto ...	Ditto ...	The Nilgiris	Throughout the month.
260	The bay-backed Shrike	<i>Lanius vittatus</i> ...	A neat cup.	In forks of trees or thorny bushes.	Throughout India ...	Season ends.
385	The yellow-eyed Babbler	<i>Pycnorhis sinensis</i> ...	A deep neat cup.	On stalks of herbs or bushes.	Throughout India proper.	Agra, 25th; eggs.
425	The streaked laughing Thrush	<i>Trochalopteron lineatum</i>	Cup-shaped.	In low bushes or mossy banks.	The Himalayas only ...	Simla, 6th; eggs.
436	The large grey Babbler	<i>Malacocercus malcomi</i>	Ditto ...	In thorny trees or bushes.	Throughout the plains	Season nearly over.
438	The striated bush "	<i>Chattarhea caudata</i> ...	Ditto ...	In low bushes or clumps of grass.	Ditto ...	Ditto.
439	The " reed "	" <i>earlii</i> ...	Ditto ...	In reeds or clumps of grass.	Locally in continental India.	Ditto.
441	The grass "	<i>Chetornis striatus</i> ...	(Unknown)	(Probably) in reeds or grass.	Eastern continental India.	Etawah, 13th; eggs (extracted).
452	The white-browed bush Bulbul	<i>Ixos luteolus</i> ...	A loose straggling cup.	In outer twigs of bushes.	Southern and eastern India.	Bombay, 14th; eggs.
462	The common Madras "	<i>Pycnonotus pusillus</i> ...	A small slender cup.	In small trees or bushes.	Throughout the plains	Aligarh, 1st, 8th; Madras; eggs.
534	The ashy wren Warbler	<i>Prinia socialis</i> ...	A cup sewn in leaves.	Hanging in bushes or creepers.	Southern India ...	Nilgiris, Conoor; eggs.
539	The rufous grass "	<i>Claticola schœnicola</i> ...	A deep narrow purse.	In tufts of grass in dry jheels.	Throughout the plains	Throughout the month.

No. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
543	The common wren Warbler	<i>Drymoipus inornatus</i> ...	Deep, neat, often domed.	Attached to leaves or twigs of shrubs.	The Bombay presidency	Bombay; eggs.
	The earth brown "	" <i>terricolor</i> ...	Ditto ...	In small bushes or long grass.	Western continental In- dia.	Aligurh, 4th; eggs.
544	The long-tailed "	" <i>longicaudatus</i> ...	Ditto ...	Ditto ...	Central and southern India.	(Requires confirmation).
546	The allied "	" <i>neglectus</i> ...	Ditto ...	Low down in thorny bushes	Central India ...	Jhansi, 1st; eggs.
550	The streaked "	<i>Burnesia lepida</i> ...	Large, glo- bular, domed.	In clumps of grass near rivers.	Northern India ...	Fatehgurh, Delhi; eggs.
551	The rufous-fronted "	<i>Franklinia buchanani</i>	Deep, ragged, often domed.	In bushes or low scrub jungle.	Western continental In- dia.	Hansi, Delhi; eggs.
631	The Indian white-eyed Tit	<i>Zosterops palpebrosus</i>	A tiny regu- lar cup.	Hung from twigs in trees or bushes.	Throughout India ...	The plains; season ends.
694	The common Weaver bird	<i>Ploceus baya</i> ...	A pendent re- tort.	Hung from tips of boughs in trees.	Throughout India pro- per.	Aligurh, 1st; eggs.
695	The striated "	" <i>manyar</i> ...	Retort fixed to reeds.	Hung from reeds or grass by water.	Ditto (locally)	Etawah, Aligurh, 4th; eggs
696	The black-throated "	" <i>bengalensis</i> ...	Retort with no tube.	In low bushes in grass jungle.	Eastern continental In- dia.	Etawah, 15th; Calcutta; eggs.
698	The chestnut-bellied Munia	<i>Munia rubroniger</i> ...	Large, oval, domed.	In bamboos, reeds, or grass.	Ditto ...	Calcutta, 28th; eggs.
703	The pin-tailed "	" <i>malabarica</i> ...	Ditto ...	In thick bushes or eaves of houses.	Throughout India pro- per.	Throughout the month.
756	The red-winged bush Lark	<i>Mirafra erythroptera</i> ...	A shallow pad	On the ground by tufts of grass.	Plains of continental India.	Aligurh, 4th, 5th; eggs.
768	The Malabar-crested "	<i>Aldaia malabarica</i> ...	Ditto ...	On the ground by clod or tuft.	Southern India ...	Nilgiris; season ends.
794	The brown turtle Dove	<i>Turtur cambaensis</i> ...	A tiny plat- form.	In low trees or bushes.	Throughout the plains	Aligurh, 31st; eggs.
796	The Indian ring "	" <i>risorius</i> ...	Ditto ...	Ditto ...	Ditto	Aligurh, 3rd, 16th; eggs.
802	The common Sandgrouse	<i>Pterocles exustus</i> ...	None ...	On the bare ground	Western continental In- dia.	Throughout the month.
803	The Peacock	<i>Pavo cristatus</i> ...	A few dry leaves.	On the ground in brushwood.	Throughout India ...	Aligurh, 5th; Agra; eggs.

819	The painted Partridge	<i>Francolinus pietus</i> ...	A few dry leaves.	On the ground in grass or crops.	Central India	... Jhansi, the Berars; eggs.
822	The grey "	<i>Ortygornis ponticeriana</i>	Ditto ...	On the ground in grass or bushes	Plains of India proper	The Punjab; eggs.
826	The jungle bush Quail	<i>Pedicular cambaiensis</i>	Ditto ...	On the ground in long grass.	Locally throughout India.	(Requires confirmation.)
828	The red-billed "	" <i>erythrorhyncha</i>	Ditto ...	On the ground under shelter.	The Nilgiris	Kotagiri; eggs.
830	The rain "	<i>Coturnix coromandeliana</i>	Ditto ...	On the ground in crops or grass.	Southern and central India.	Throughout the month.
832	The bustard "	<i>Turnix taigoor</i> ...	Ditto ...	On the ground in grass or scrub.	In all wooded tracts	Calcutta, 25th; eggs.
839	The likh Florikin	<i>Syphocides auritus</i> ...	None	On the ground by clumps of grass.	Western peninsular India.	Sholapur, 15th; eggs.
873	The painted Snipe	<i>Rhyncea bengalensis</i>	A large pad	On the ground in rushes or rice.	In all moist tracts	Throughout the month.
900	The bronze-winged Jacana	<i>Metopidius indicus</i> ...	A small pad of rushes.	Floating among rushes or weeds	Ditto	Central provinces; eggs.
917	The black-necked Stork	<i>Mycteria australis</i> ...	A large platform.	At tops of large trees.	Throughout the plains	Aligurb, 11th; eggs.
920	The white-necked "	<i>Melanopelargus episcopus.</i>	A loose platform.	Ditto ...	Throughout India proper.	Aligurb, 2nd; eggs.
924	The purple Heron	<i>Ardea purpurea</i> ...	Ditto ...	In thick beds of reeds.	Ditto	Etawah, 9th; eggs.
927	The little Egret	<i>Herodias garzetta</i> ...	Ditto ...	Near tops of trees	Throughout the plains	Season ends.
933	The chestnut Bittern	<i>Ardetta cinnamomea</i> ...	Ditto ...	In reeds or thickets in water.	Himalayas and continental India.	Etawah, 4th; eggs.
938	The pelican Ibis	<i>Tantalus leucocephalus</i>	Ditto ...	On high trees near water.	Throughout India (very local).	Muttra, 20th; eggs.
939	The Spoonbill	<i>Platalea leucorodia</i> ...	Ditto ...	Ditto ...	Throughout India proper.	Aligurb, 3rd; eggs.
941	The king Curlew	<i>Geronticus papillosus</i>	Ditto ...	High up in large trees.	Throughout the plains	Aligurb, 17th; eggs.
950	The black-backed Goose	<i>Sarkidiornis melanotus</i>	A few leaves	In holes in decayed trees.	Ditto	Season ends.
959	The spotted-billed Duck	<i>Anas poecilorhynchus</i> ...	A shallow pad	In sedge or grass by water.	Ditto	Season nearly over.
975	The little Grebe	<i>Podiceps philippensis</i>	A large mass of weeds.	In rushes or boughs over water.	Throughout India	Cawnpur; eggs.
1006	The lesser Cormorant	<i>Graculus fuscicollis</i> ...	A rough platform.	On low trees in or by water.	Central and eastern India.	Jhansi; eggs
1007	The little "	" <i>javanicus</i> ...	Ditto ...	Ditto ...	Throughout India	Season nearly over.

OCTOBER.

THE breeding season of the water-birds is now over, except in the range of the north-east monsoon where it has not begun. The large birds of prey have not commenced to lay to any extent, and only a few stragglers of various families breed during this month. The eggs of the river tern have once been found in large numbers in this month, but this is probably a most unusual circumstance.

In the HIMALAYAS, as far as is known, not a single species lays in this month. There is no record of an egg of any kind having been taken.

In the PUNJAB, eggs of the rufous grass warbler, the streaked wren warbler, the pin-tailed munia, the common sandgrouse, the grey partridge, the black-necked stork, and the pelican ibis have been taken. The likh florikin certainly breeds there in this month, but further particulars are required. Towards the end of the month the *long-billed vulture* and the *striated bunting* begin to pair and build.

In the NORTH-WEST PROVINCES, eggs of the white-backed vulture, the ring-tailed fishing eagle, the large grey babbler, the streaked wren warbler, the pin-tailed munia, the common sandgrouse, and the pea fowl may be taken. Some of the *Indian hoopoes* too begin to pair and build.

In BENGAL, the grass owl is known to lay. Also the ring and turtle doves, black-necked storks, and some other species; and the *common kites*, the *common sand martins*, and the *adjutants* begin to build.

In CENTRAL INDIA, eggs of the rain quail and likh florikin have been taken; and by the end of the month the *painted sandgrouse* begin to pair.

In SOUTH INDIA, eggs of the white-headed and jungle babblers, Adams's wren warbler, the common wren warbler, the black-headed munia, the Malabar-crested lark, the turtle doves, the grey jungle fowl, the red-billed bush quail, the rain quail, the likh florikin, and the black-necked stork have been taken. The *king curlew* builds towards the end of the month.



MARSHALL, DEL.

NEST OF THE YELLOW-BELLIED FANTAIL.

(Chelidorhynx hypoxantha.)



OCTOBER.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
5	The white-backed Vulture	Gyps bengalensis ...	A large platform.	Near tops of large trees.	Throughout continental India.	Fatehgurh, 15th; eggs.
42	The ring-tailed fishing Eagle	Haliaetus leucoryphus	Ditto ...	On high trees near water.	Throughout northern India.	Aligarh, 29th; eggs.
61	The grass Owl	Sceloglaux caudata ...	None ...	On the ground in long grass.	Northern Bengal ...	Tirhoot, 26th, 27th; eggs.
90	The dusky crag Martin	Cotyle concolor ...	Semi-circular cup.	On buildings or in caves.	Throughout India locally.	Delhi; eggs.
232	The amethyst-rumped Honey-sucker	Leptocoma zeylanica ...	Pear-shaped, side entrance	Hanging from tips of branches.	Lower Bengal and peninsular India.	Season nearly over.
233	The tiny "	" minima ...	Ditto ...	Ditto ...	The Nilgiris ...	Season ends.
260	The bay-backed Shrike	Lanius vittatus ...	A neat cup	In forks of trees or bushes.	Throughout India ...	Ditto.
433	The white-headed Babbler	Malacocercus griseus ...	A loose straggling cup.	In low trees or thorny hedges.	The plains of south India.	Madras, Mysore; eggs.
434	The jungle "	" malabaricus	Ditto ...	Ditto ...	The hills of south India	The Nilgiris; eggs.
436	The large grey "	" unicolor	Cup-shaped	In thorny trees or bushes.	Throughout the plains	Muttra; eggs.
438	The striated bush "	Chattarhoa caudata...	Ditto ...	In low bushes or clumps of grass.	Ditto ...	Season nearly over.
533	Adams' wren Warbler	Prinia adamsi ...	Oval, often domed.	Suspended from leaves of cereals.	Peninsular India. ...	Almednugger; eggs.
539	The rufous grass "	Cisticola schoenicola ...	A deep narrow purse.	In tufts of grass in beds of juncals.	Throughout the plains	Delhi; eggs; season ends.
543	The common wren "	Drymoipus inornatus...	Deep, neat, often domed	Attached to twigs or leaves in shrubs.	The Bombay presidency	Bombay, 13th; eggs.
550	The striated "	Burnesia lepidia ...	Large, globular, domed	In clumps of grass near rivers.	Northern India ...	Delhi, Fatehgurh; eggs.
551	The rufous-fronted "	Franklinia buchanani	Deep, ragged, often domed	In bushes or low scrub jungle.	Western continental India.	Delhi; eggs.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
697	The black-headed Munia	<i>Munia malacca</i> ...	Large, oval, domed.	In sugar-cane or reeds in water.	Southern and central India.	Coimbatore; eggs.
703	The pin-tailed "	" <i>malabarica</i> ...	Ditto ...	In thick bushes or caves of houses.	Throughout India proper.	Oudh, Punjab; eggs.
768	The Malabar-crested Lark	<i>Alauda malabarica</i> ...	A shallow saucer.	On the ground by clod or tuft.	Southern India ...	(Requires confirmation).
794	The brown turtle Dove	<i>Turtur cambaensis</i> ...	A tiny platform.	In low trees or in bushes.	Throughout the plains	A few staggles breed.
802	The common Sandprouse	<i>Pterocles exustus</i> ...	None ...	On the bare ground	Western continental India.	Sirsa, 3rd, 22nd; Etawah, 19th; eggs.
803	The Peacock	<i>Pavo cristatus</i> ...	A few dry leaves.	On the ground in brushwood.	Throughout India ...	Agra, 14th; eggs.
813	The grey jungle Fowl	<i>Gallus sonneratii</i> ...	Ditto ...	On the ground in dense thickets.	Central and southern India.	Nadivatom; eggs.
822	The grey Partridge	<i>Orygornis ponticeriana</i>	Ditto ...	On the ground in bushes or grass.	Plains of India proper	The Punjab; eggs.
826	The jungle bush Quail	<i>Perdicula cambaiensis</i>	Ditto ...	On the ground in long grass.	Throughout India locally.	(Requires confirmation).
828	The red-billed "	" <i>erythrorhyncha</i>	Ditto ...	On the ground under shelter.	The Nilgiris ...	Kotagiri; eggs.
830	The rain "	<i>Coturnix coromandeliana</i>	Ditto ...	On the ground in crops or grass.	Southern and central India.	Sholapur; season ends.
839	The hihk Florikin	<i>Sypheoides auritus</i> ...	None ...	On the ground between tufts of grass.	Western peninsular India.	Sholapur, 5th, 27th; eggs.
917	The black-necked Stork	<i>Mycteria australis</i> ...	A large platform.	At tops of large trees.	Throughout the plains	Throughout the month.
938	The pelican Ibis	<i>Tantalus leucocephalus</i>	A loose platform.	On large trees ...	Throughout India (very local)	Muttra, 20th; eggs.



MARSHALL, DEL.

NEST OF THE BROWN FISH OWL.

Ketupa coromandus

NOVEMBER.

IN this month the breeding season is at its lowest ebb. The larger birds of prey are commencing to pair and build, but few of them lay so early. The breeding of the water-birds is almost completely over, and it is only here and there that in particular localities some few species may be found breeding.

In the HIMALAYAS, the *bearded vulture*, and possibly also the *roc vulture*, commence to build, but no eggs of any species have been recorded as taken.

In the PUNJAB, the striated bunting, the common sandgrouse, and the grey partridge have eggs, while the *raven* begins to build at the latter end of the month.

In the NORTH-WEST PROVINCES, eggs of the white-backed vulture, the ring-tailed fishing eagle, the rock-horned owl, the pin-tailed munia, and the black-necked stork may be found, while *Bonelli's eagle* and the *dark-horned owl* are pairing and building; the latter is, more strictly speaking, selecting than building, for it usually occupies an old kite's or eagle's nest.

In BENGAL, eggs of the grass owl, the common sand martin, and the adjutant, may be found, and possibly some few others, but only these are recorded.

In CENTRAL INDIA, the Indian tawny eagle, the black-winged kite, the Indian screech owl, the mottled wood owl, and the painted sandgrouse are all laying. The *green amadavat* and *Sykes' turtle dove* are pairing and building.

In SOUTHERN INDIA, eggs of the amethyst-rumped honeysucker, the jungle babbler, the Indian amadavat, the grey jungle fowl, and the king curlew have been taken; and by the end of the month the *golden-backed woodpecker*, the *white-necked stork*, and all kinds of *egrets* have begun to pair and build.

NOVEMBER.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
	The long-billed Vulture	<i>Gyps indicus</i>	A large plat- form.	At tops of high trees.	Plains of north India	Delhi, 20th; eggs.
5	The white-backed "	" <i>bengalensis</i>	Ditto ...	Ditto ...	Throughout continental India	Bijnor, 1st, 31st; Meerut; eggs.
7	The bearded "	<i>Gypaetus barbatus</i>	Ditto ...	On ledges of cliffs	Himalayas and Sulei- man range.	Season commences.
29	The Indian tawny Eagle	<i>Aquila vindhiana</i>	Ditto ...	In high trees ...	Western continental In- dia.	Bundelkhand; season be- gins.
42	The ring-tailed fishing "	<i>Haliaeetus leucoryphus</i>	Ditto ...	Ditto (near water)	Throughout northern India.	Saharunpur, 11th; eggs.
56	The common Kite	<i>Milvus govinda</i>	Irregular plat- form.	In forks of trees ...	Throughout India ...	Calcutta; season begins.
59	The black-winged "	<i>Elanus melanopterus</i>	A shallow com- pact cup.	Ditto ...	In wooded parts of India proper.	Central Provinces; eggs.
60	The Indian screech Owl	<i>Strix indica</i>	None ...	In holes in trees or buildings.	Throughout the plains	Raipur (C. P.), 25th; eggs.
61	The grass "	<i>Scelogrix caudata</i>	Ditto ...	On the ground in long grass.	Northern Bengal ...	Tirhoot; eggs.
65	The mottled wood "	<i>Bulacca sinensis</i>	Ditto ...	In holes or hollows in large trees.	Throughout the plains	Raipur (C. P.); eggs.
69	The rock-horned "	<i>Ascalaphia bengalensis</i>	Ditto ...	On ledges of banks.	Throughout India pro- per.	Meerut, 10th; eggs.
72	The brown fish "	<i>Ketupa ceylonensis</i>	Ditto ...	In clefts in rocks or old trees.	Throughout India ...	Calcutta; season begins.
89	The Indian sand Martin	<i>Cotyle sinensis</i>	A loose cup	In deep holes in banks of rivers.	Ditto (rare in south)	Calcutta; eggs.
232	The amethyst-rumped Honey sucker	<i>Leptocoma zeylanica</i>	Pear-shaped, side entrance.	Hanging from tips of branches.	Lower Bengal and pen- insular India.	Madras; eggs.
434	The jungle Babbler	<i>Malacocercus malabaricus</i>	A loose strag- gling cup.	In low trees or thick thorny bushes.	The hills of south India	Nilgiris; eggs.
436	The large grey "	" <i>malcolmi</i>	Cup-shaped	In thorny trees or bushes.	Throughout the plains	A few stragglers breed.

703	The pin-tailed Munia	Munia malabarica ...	Large, oval, domed.	In thick bushes or caves of houses.	Throughout India proper.	Oudh, 5th; eggs.
704	The Indian Amadavat	Estrellda amandava ...	Ditto ...	In thick bushes by water.	Throughout India (locally.)	The Nilgiris; eggs.
800	The striolated Bunting	Emberiza striolata ...	A thick cup.	On the ground under a stone.	Western continental India.	Ajmir, 12th; eggs.
802	The painted Sandgrouse	Pterocles fasciatus ...	None ...	On the ground by bush or tuft.	Rocky parts of central India.	Chanda (C.P.), 28th; eggs.
813	The common "	" exustus ...	Ditto ...	On the ground unsheltered.	Western continental India.	Sirsa, 24th; eggs.
822	The grey jungle Fowl	Gallus sonneratii ...	A few dry leaves.	On the ground in dense thickets.	Central and southern India.	The Nilgiris; eggs.
826	The grey Partridge	Ortygornis ponticerrana	Ditto ...	On the ground in bush or grass.	Open plains of India proper.	The Salt range; eggs.
915	The jungle bush Quail	Perdula cambaensis	Ditto ...	On the ground in long grass.	Locally throughout India.	(Requires confirmation.)
917	The Adjutant	Leptoptilus argala ...	A large plat-form.	At tops of large trees.	The Sunderbuns and Gorakpur.	Throughout the month.
938	The black-necked Stork	Mycteria australis ...	Ditto ...	Ditto ...	Throughout the plains	Season nearly over.
942	The pelican Ibis	Tantalus leucocephalus	A loose plat-form.	In forks of high trees.	Throughout India (very local.)	Ditto.
	The king Curlew	Geronticus papillosus	Ditto ...	High up in large trees.	Throughout the plains	Sholapur, 5th, 20th; eggs.

DECEMBER.

By this time in Upper India the season for eggs of the large birds of prey has fairly commenced. In the extreme south and east coast, the water-birds that are monsoon breeders, such as egrets, pond herons, curlews, &c., are all breeding; and everywhere throughout the plains, the eggs of the ring-tailed fishing eagle and of the ring dove may be taken.

In the HIMALAYAS, eggs of the bearded vulture have been taken; while the *roc vultures*, *black eagles*, *Nepal hawk eagles*, and *Himalayan fishing eagles* are all building.

In the PUNJAB, the pale long-billed vulture, the white-backed vulture, the ring-tailed fishing eagle, the striated bush babbler, the raven, and the common sandgrouse all have eggs.

In the NORTH-WEST PROVINCES, the white-backed vulture, Bonelli's eagle, the ring-tailed fishing eagle and rock-horned owl, the dusky-horned owl, the brown fish owl, the hoopoe, the pin-tailed munia, and the black-necked stork have all got eggs. The *pale long-billed vulture*, the *dusky sand martin*, and the *turtle doves* are building.

In BENGAL, the ring-tailed fishing eagle and white-bellied sea eagle, the common kite, the brown fish owl, the Indian sand martin, and the ring doves have all got eggs.

In CENTRAL INDIA, eggs of the pale long-billed vulture, the Indian tawny eagle, the ring-tailed fishing eagle, the black-winged kite, the screech owl, the mottled wood owl, the Indian amadavat, the green amadavat, and Sykes's turtle dove have all been taken; and among the birds that commence pairing and building in this month may be mentioned the *shaheen falcon*, the *bar-tailed fishing eagle* (possibly, but this requires confirmation), the *dusky crag martin*, the *white-backed munia*, and the *ruddy turtle dove*.

In SOUTHERN INDIA, eggs of the white-bellied sea eagle, the common kite, the southern golden-backed woodpecker, the amethyst-rumped honey sucker, the jungle babbler, the Indian pied wagtail, the Indian amadavat, the black-bellied finch lark, the ring dove, the grey jungle fowl, the white-necked stork, the egrets, pond herons, king curlews, and all of the resident water-birds may be taken; and watch should be kept on the *white scavenger vultures*, *shaheen falcons*, *bar-tailed fishing eagles*, *purple honeysuckers*, *Nilgiri flowerpeckers*, *red-billed bush quail*, and *Indian snake birds*, which are known to commence building in the course of the month.



MARSHALL DEL.

NEST OF THE PURPLE HONEY SUCKER.

(Arachnechthra asiatica.)



DECEMBER.

Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
3	The roc Vulture	<i>Gyps himalayensis</i> ...	A large platform.	On ledges of cliffs	The Himalayas only ...	Season commences.
4	The pale long-billed "	" <i>pallascens</i> ...	Ditto ...	Ditto ...	Western and central India.	Ditto.
5	The " " "	" <i>indicus</i> ...	Ditto ...	At tops of high trees.	Plains of north India	Delhi; eggs.
7	The white-backed "	" <i>bengalensis</i> ...	Ditto ...	Ditto ...	Throughout continental India.	Muttra, 6th; eggs.
29	The bearded "	<i>Gypaetus barbatus</i> ...	Ditto ...	On ledges of cliffs	Himalayas and Suleiman range.	Kangra, 25th; eggs.
29	The Indian tawny Eagle	<i>Aquila vindhiana</i> ...	Ditto ...	In high trees ...	Western continental India.	Bundelkhand, 13th; eggs.
33	Bonelli's "	<i>Nisaeetus bonellii</i> ...	Ditto ...	On cliffs or high trees.	Throughout India ...	Etawah, 25th; eggs.
42	The ring-tailed fishing "	<i>Haliaeetus leucoryphus</i>	Ditto ...	On high trees near water.	Throughout northern India.	Throughout the month.
43	The white-bellied sea "	" <i>leucogaster</i>	Ditto ...	On high trees near the coast.	All round the coast ...	Season begins.
56	The common Kite	<i>Milvus govinda</i> ...	Irregular platform.	In forks of trees ...	Throughout India ...	Calcutta, Madras, Nilgiris; eggs.
59	The black-winged "	<i>Elanus melanopterus</i> ...	A shallow compact cup.	Ditto ...	The wooded parts of India proper.	Sumbhulpur, 20th; eggs.
60	The Indian screech Owl	<i>Strix indica</i> ...	None ...	In holes in trees or buildings.	Throughout the plains	Raipur (C. P.), 4th; eggs.
65	The mottled wood "	<i>Bulacca sinensis</i> ...	Ditto ...	In holes or hollows in large trees.	Ditto ...	Raipur (C. P.), 5th; eggs.
69	The rock-horned "	<i>Ascalaphia bengalensis</i>	Ditto ...	On ledges of banks	Throughout India ...	Meerut, 15th; eggs.
70	The dusky-horned "	" <i>coromanda</i>	Ditto ...	In forks of large trees.	Throughout the plains	Muttra, 5th; eggs.
72	The brown fish "	<i>Ketupa ceylonensis</i> ...	Ditto ...	In clefts of rocks or large trees.	Throughout India ...	Etawah, 25th; eggs.
89	The Indian sand Martin	<i>Cotyle sinensis</i> ...	A loose cup	In deep holes in river banks.	Ditto (rare in south)	Calcutta; eggs.

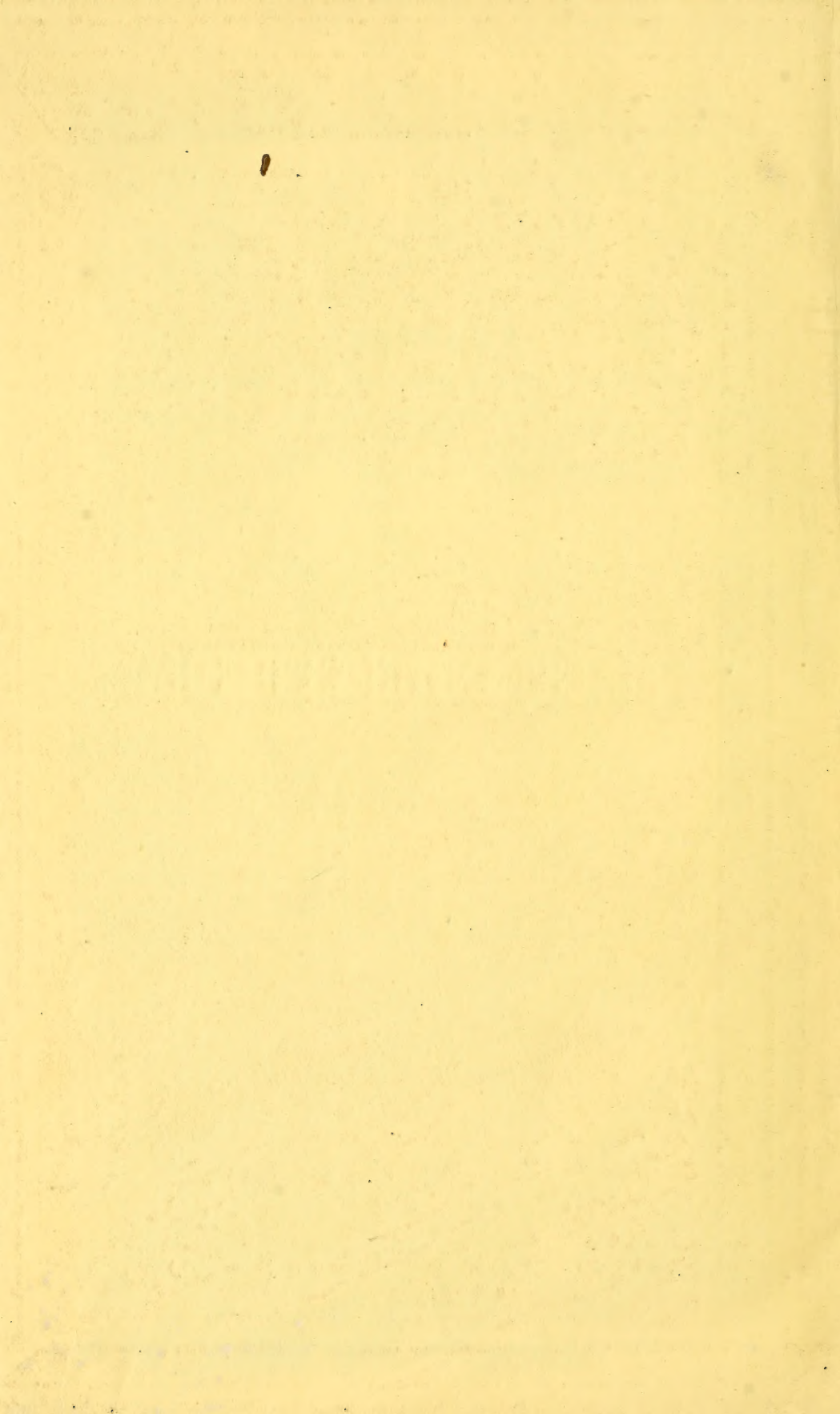
Nos. in Jerdon.	English Names.	Scientific Names.	Shape of Nest.	Site of Nest.	Geographical Range in Breeding Season.	Particulars for the Month.
167	The southern gold-backed Woodpecker.	<i>Chrysocolaptes deserti.</i>	None	In artificial holes in trees.	The hills of south India.	Season begins.
232	The amethyst-numped Honeyeater.	<i>Leptocoma zeylanica</i> ...	Pear-shaped, side entrance.	Hanging from tips of branches.	Lower Bengal and peninsular India.	Madras; eggs.
255	The Indian Hoopoe	<i>Upupa nigripennis</i> ...	None	In holes in trees or buildings.	Throughout India	Allahabad, 29th; eggs.
434	The jungle Babbler	<i>Malacocercus malabaricus.</i>	A loose straggling cup.	In small trees or thorny hedges.	The hills of south India.	The Nilgiris; eggs.
438	The striated bush "	<i>Chattarhica caudata</i> ...	Cup-shaped	In low bushes or clumps of grass.	Throughout the plains	Hansi; eggs.
589	The Indian pied Wagtail	<i>Motacilla maderaspatana</i>	A shallow pad	On the ground or buildings by water.	Ditto	Madras, 26th; eggs.
657	The Raven	<i>Corvus corax</i> ...	A large compact cup.	In forks of solitary trees.	Western continental India.	Hansi, 19th; eggs.
703	The pin-tailed Munia	<i>Munia malabarica</i> ...	Large, oval, domed.	In thick bushes or eaves of houses.	Throughout India proper.	Mirzapur, Oudh; eggs.
704	The Indian Amadavat	<i>Estrela amandava</i> ...	Ditto	In thick bushes near water.	Ditto (locally)	Raipur, 8th; Kotagiri; eggs.
705	The green "	" <i>formosa</i> ...	Ditto	On stalks of sugarcane.	Central India	Saugor; eggs.
760	The black-bellied finch Lark	<i>Pyrrhulanda grisea</i> ...	A tiny shallow pad	On the ground by clod or tuft.	Throughout the plains	Poona, 24th; eggs.
793	Sykes's turtle Dove	<i>Turtur meena</i> ...	A tiny platform.	In low trees in thick foliage.	Peninsular and eastern India.	Raipur; eggs.
796	The Indian ring "	" <i>risorius</i> ...	Ditto	In low trees or bushes.	Throughout the plains	Etawah; eggs.
802	The common Sandprouse	<i>Pterocles exustus</i> ...	None	On the bare ground	Western continental India.	Sirsa, 7th, 20th; eggs.
813	The grey jungle Fowl	<i>Gallus sonneratii</i> ...	A few dry leaves.	On the ground in dense thickets.	Central and south India.	The Nilgiris; eggs.
826	The jungle bush Quail	<i>Perdicula cambaensis</i>	Ditto	On the ground in long grass.	Locally throughout India.	(Requires confirmation).
917	The black-necked Stork	<i>Mycteria australis</i> ...	A large platform.	At tops of large trees.	Throughout the plains	Mynpoorie, 27th; eggs.

920	The white-necked Stork	Melanopelargus episcopus.	A loose plat-form.	Near tops of large trees.	Throughout India per.	Sholapur, 18th; eggs.
925	The white Heron	Herodias alba	Ditto	In forks of trees by water.	Throughout the plains	South India only.
926	The little white "	" egretoides	Ditto	Ditto	Ditto	Ditto.
927	The little Egret	" garzetta	Ditto	Ditto	Ditto	Ditto.
929	The cattle "	Buphus coromandus	Ditto	Ditto	Ditto	Ditto.
930	The little pond Heron	Ardeola grayi	Ditto	Ditto	Ditto	Ditto.
942	The king Curlew	Geronticus papillosus	Ditto	High up on large trees.	Ditto	Sholapur, 1st, 9th; eggs.

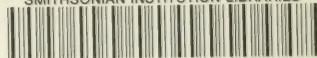
ABSTRACT

SHOWING NUMBER OF SPECIES KNOWN TO BUILD IN EACH MONTH.

		All kinds of Birds.	RAPTORES.			GEMITORES	RASORES.	
			Diurnal.	Nocturnal.	Total.	Doves and Pigeons.	Game Birds.	Total.
1	January ...	56	22	6	28	5	2	7
2	February ...	89	24	7	31	7	4	11
3	March ...	186	22	10	32	8	13	21
4	April ...	299	24	11	35	12	15	27
5	May ...	394	19	9	28	13	22	35
6	June ...	316	12	2	14	15	13	28
7	July ...	193	1	...	1	5	12	17
8	August ...	124	1	...	1	3	9	12
9	September	55	...	...	...	2	8	10
10	October ...	30	2	1	3	1	8	9
11	November	28	5	4	9	...	5	5
12	December...	41	10	5	15	2	3	5



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